



No. 16

19 APRIL 2003



UNITED STATES OF AMERICA

# NOTICE TO MARINERS



Published Weekly by the  
National Imagery and Mapping Agency

Prepared Jointly with the  
National Ocean Service and U.S. Coast Guard

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**Visit the Maritime Safety Information Division website at  
<http://pollux.nss.nima.mil/>**



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## IMPORTANT INFORMATION

The Notice to Mariners is published by the National Imagery and Mapping Agency (NIMA), under the authority of Department of Defense Directive 5105.40, to advise mariners of important matters affecting navigational safety, including new hydrographic discoveries, changes in channels and navigational aids, etc. (U.S. Code Title 10, Sec. 442 and Title 44, Sec. 1336 refer). Nothing in the arrangement of information implies endorsement or acceptance by NIMA in matters affecting the status and boundaries of States and territories. The Notice to Mariners presents corrective information affecting charts, NIMA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NIMA List of Lights, Radio Navigational Aids and other products produced by the National Imagery and Mapping Agency, National Ocean Service and U.S. Coast Guard.

Information for the Notice to Mariners is contributed by the following Agencies: National Imagery and Mapping Agency (NIMA) (Department of Defense) for waters outside the territorial limits of the United States; National Ocean Service (NOS) (Department of Commerce), which is charged with the surveys and charting of the coasts and harbors of the United States and its territories; the U.S. Coast Guard (USCG) (Department of Transportation), which is responsible for the safety of life at sea and the establishment and operation of aids to navigation; and the U.S. Army Corps of Engineers (Department of Defense), which is charged with the improvement of rivers and harbors of the United States. In addition, important contributions are made by foreign hydrographic offices and cooperating observers of all nationalities.

For further information concerning NIMA hydrographic products and services, including the Maritime Safety Information Website, users may contact:

<u>Name</u>	<u>Telephone</u>	<u>DSN</u>	<u>FAX</u>
Maritime Safety Information Division	301-227-5006	287-5006	301-227-5745
World-Wide Navigational Warning Service	301-227-3147	287-3147	301-227-3731
Fleet Liaison Officer	301-227-3120	287-3120	301-227-4211
Maritime Safety Information Website	301-227-3296	287-3296	301-227-4211
Notice to Mariners: Regions 1 and 2	301-227-3122	287-3122	301-227-3175
Notice to Mariners: Regions 3, 4, 5	301-227-3146	287-3146	301-227-3175
Notice to Mariners: Regions 6 thru 9	301-227-3146	287-3146	301-227-3175
Sailing Directions, Fleet Guides	301-227-3183	287-3183	301-227-3174
Navigation Science Publications	301-227-3120	287-3120	301-227-3731
Distribution Issues	301-227-7652	287-7652	301-227-4211

The Maritime Safety Information Website can be accessed via the NIMA Homepage ([www.nima.mil](http://www.nima.mil)) under the Safety of Navigation link or directly at (<http://pollux.nss.nima.mil>). For your convenience NIMA provides three e-mail addresses. For information affecting Notice to Mariners use [NavNotices@nima.mil](mailto:NavNotices@nima.mil), for information affecting Sailing Directions and all other navigational publications use [SDPUBS@nima.mil](mailto:SDPUBS@nima.mil), for information concerning the Maritime Safety Information Website, use [webmaster\\_nss@nima.mil](mailto:webmaster_nss@nima.mil).

Mariners are requested to notify NIMA of discrepancies in charts and publications, using the Marine Information Report and Suggestion Sheet at the back of this Notice to Mariners. This form should also be used to report permanent changes, additions, or deletions from charted or published information. Reports which constitute an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. All reports are greatly appreciated. Marine Information Report and Suggestion sheets received during the past week were submitted by the following observers:

<b>Observer</b>	<b>Ship/Organization</b>
Second Officer Melvin A. Santos	USNS STALWART
Third Officer Bob Anderson	CSX PRODUCER
Third Officer D.L. Catino	KEYSTONE SHIPPING CO
Darrel Tracy	MORAN TOWING OF VIRGINIA
ET1(SS) Tansy	USS SEAWOLF
ET2(SS) Christopher T. Setser	USS SPRINGFIELD
ET2(SS) Jackson	USS SEAWOLF
ETC(SS) Robert J. Reilly	NAVAL ORDNANCE TEST UNIT
Navigation Team	OVERSEAS NEW ORLEANS
QM2 Daniel Fahy	USS CAPE ST GEORGE
QM2 Mark Robbins	USCGC NANTUCKET
QM3 Cooper	USS SAN JACINTO

**Cover Photo:** The **USS HUE CITY (CG-66)** the first United States Ship to bear this name and only ship named after a battle in the Vietnam War, is the twentieth in the *TICONDEROGA* class of Aegis guided missile cruisers and the fourteenth to be built by Ingalls Shipbuilding in Pascagoula, Mississippi. Her mission is to conduct prompt and sustained combat operations at sea in support of a carrier battle group or amphibious assault group. **HUE CITY** was designed to defend against coordinated saturation attacks involving enemy surface ships, submarines, aircraft and missiles. Additionally, **HUE CITY** is able to engage in offensive actions against the enemy through employment of long-range anti-ship missiles, land attack missiles and gunfire. Commissioned 14 September 1991, the **HUE CITY** has a displacement of 9600 tons fully loaded, is 567 feet long, has a beam of 55 feet and a draft of 34 feet. She carries a crew of 340 Sailors, 27 Chief Petty Officers and 33 Officers. The homeport of the **USS HUE CITY** is Mayport, Florida.

INFORMATION  
OF  
SPECIAL INTEREST  
OR  
IMPORTANCE  
TO  
MARINERS

**NM 16/03**

# HYDROGRAM

**National Imagery and Mapping Agency  
Bethesda, MD 20816-5003**

SPECIAL  
ANNOUNCEMENTS

NEW PRODUCTS  
OR SERVICES

IMPORTANT  
CHANGES

**19 April 2003**

## **ELECTRONIC CHART/PUBLICATION CORRECTION RECORD CARD NOW AVAILABLE**

AN ELECTRONIC VERSION OF THE CHART/PUBLICATION CORRECTION RECORD CARD, NIMA FORM 8660-9, IS NOW AVAILABLE ON THE MARITIME SAFETY INFORMATION WEB SITE. SEE SECTION III

## EXPLANATION OF CONTENTS

The Notice to Mariners contains corrective information affecting nautical charts, the NIMA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NIMA List of Lights, Radio Navigational Aids and other related nautical publications. The information contained in these corrections is important to safe navigation. It is the user's responsibility to decide which of their charts and publications require correction. Consult the U.S. Coast Guard Local Notice to Mariners for information pertaining to waterways within the United States that are not normally used by oceangoing vessels. Because of the sometimes transitory nature of aids to navigation, depths and port information, local area sources should be consulted whenever possible. This publication is not required to be maintained intact. Portions may be separated for correction or attachment to an affected product. The Notice to Mariners is divided into the following sections:

**Section I-1** contains corrections to nautical charts listed in numeric order by chart number. Each chart correction listed applies only to that particular chart. Related charts, if any, will have their own specific correction listed separately. Users should also refer to U.S. Chart 1 Nautical Chart Symbols, Abbreviations and Terms for additional information pertaining to the correcting of charts. The illustration below describes the elements that comprise a typical chart correction:



A chart correction preceded by:

★ indicates that it is based upon original U.S. source information.

T indicates that it is temporary in nature.

P indicates that it is preliminary, and that permanent corrective action will appear in a future Notice to Mariners.

The letter M immediately following the chart number indicates that the correction should be applied to the metric side of the chart only. The letter N is not a part of the chart number.

The letter N preceding the current Notice to Mariners number indicates that the affected chart is on Limited Distribution and is normally only for use by U.S. Navy, government-owned or -chartered vessels.

Courses and bearings are given in degrees true.

Light sectors are expressed in degrees true from the vessel TOWARD the light.

The visible range(s) listed for lights is normally the nominal range (the distance at which it can be seen in clear weather), expressed in nautical miles, except in the Great Lakes where it is expressed in statute miles.

The colors of structures and lights of navigational aids are abbreviated in accordance with Chart 1.

**Section I-2\*** contains all chartlets, depth tabulations and notes associated with the chart corrections in Section I-1. Chartlets and depth tabulations supersede all previous information portrayed.

**Section I-3** lists all NIMA and NOS charts which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the oldest Summary of Corrections or the chart's announcement, whichever is later.

**Section II-1** is a weekly listing of corrections to the NIMA Hydrographic Products Catalog, including new charts and publications. It also contains the latest price category information.

**Section II-2\*** contains corrections to navigation publications, including Sailing Directions, Coast Pilots, Fleet Guides, Radio Navigational Aids (Pub. 117), *The American Practical Navigator* and other related nautical publications.

**Section II-3\*** lists weekly updates to the USCG Light Lists.

**Section II-4\*** lists weekly updates to the NIMA List of Lights.

**Section II-5** lists all NIMA, NOS and USCG navigation publications which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the publication's announcement.

**Section III-1** lists the message number of all in-force Navigational Warnings, and the text of those warnings promulgated during the previous week. Notice to Mariners Nos. 13, 26 and 39 list a summary of all in-force Navigational Warnings for the preceding quarter. Notice to Mariners No. 52 lists a complete summary of all in-force Navigational Warnings.

**Section III-2** contains miscellaneous information of particular interest to the maritime community.

\*The left-hand pages of these sections are intentionally blank.

**SECTION I  
CHART CORRECTIONS**

**NM 16/03**

<b>103</b> (INT 103)	5Ed. 8/25/90	LAST NM 44/01	16/03
Add	Wreck [K29]	42°12'N 12°03'W	
	(49(847)02 Cadiz)		
<b>540</b>	16Ed. 8/18/90	LAST NM 51/02	16/03
Change	Visibility (range) of light to 22M	19°31'N 154°49'W	
	(8/03 CG14)		
<b>11013</b>	44Ed. 1/19/02	LAST NM 13/03	16/03
Change	Legend to "Var 9° W (2002)"	27°12.0'N 75°02.0'W	
	Legend to "Var 10° W (2002)"	27°45.0'N 73°38.0'W	
	(NTM0002/2003)		
<b>★11301</b>	23Ed. 9/8/01	LAST NM 37/02	16/03
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>11302</b>	29Ed. 6/02	LAST NM 37/02	16/03
	<b>(Side B)</b>		
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>★11317</b>	29Ed. 2/16/02	LAST NM 49/02	16/03
Add	Tabulation of controlling depths from		
	Subsection I-2		
	<b>(Inset)</b>		
Add	Chartlet, depicting changes in hydrography and		
	topography, from Subsection I-2	28°38'00.0"N 96°34'00.0"W	
	(NOS)		
<b>★11324</b>	32Ed. 3/16/02	LAST NM 10/03	16/03
Change	Legend to "40 FT DEC 2002 Turning Basin"	29°21'41"N 94°54'55"W	
	(See 1/03-11324)		
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>★11325</b>	34Ed. 2/16/02	LAST NM 8/03	16/03
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>11326</b>	31Ed. 10/02	LAST NM 9/03	16/03
	<b>(Page A)</b>		
Change	Legend to "40 FT 2002"	29°36'55"N 94°57'32"W	
	Legend to "BAYPORT SHIP CHANNEL 34		
	FT FOR WIDTH OF 300 FT NOV 2002"	29°36'57"N 95°00'40"W	
	Legend to "36 FT NOV 2002"	29°36'29"N 95°01'40"W	
	<b>(Page C)</b>		
Change	Legend to "40 FT 2002"	29°21'43"N 94°54'53"W	
	(NOS)		
<b>★11327</b>	30Ed. 5/26/01	LAST NM 1/03	16/03
Change	Legend to "40 FT NOV 2002"	29°36'54"N 94°57'33"W	
	Legend to "34 FT FOR WIDTH OF 300 FT		
	NOV 2002"	29°36'50"N 94°58'50"W	
	Legend to "36 FT NOV 2002"	29°36'41"N 95°01'19"W	
	(See 24, 37/02, 1/03-11327)		
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>★11328</b>	22Ed. 6/2/01	LAST NM 6/03	16/03
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>11329</b>	34Ed. 1/12/02	LAST NM 10/03	16/03
Add	Tabulation of controlling depths from		
	Subsection I-2		
	(NOS)		
<b>★12272</b>	29Ed. 4/20/02	LAST NM 13/03	16/03
Change	Legend to "33 FT FOR A WIDTH OF 600 FT		
	APR 2001-AUG 2002"	39°05'25"N 76°18'14"W	
	Legend to "33 FT FOR A WIDTH OF 600 FT		
	JUN 2002"	39°10'30"N 76°17'30"W	
	(NOS)		
<b>12327</b>	96Ed. 11/02	LAST NM 14/03	16/03
Delete	Buoy "A"	40°40'33"N 74°03'33"W	
	(See 12/03-12327)		
Relocate	Buoy "6" from 40°40'39"N 74°03'28"W to	40°40'32"N 74°03'36"W	
Add	Buoy "8" R, nun	40°40'44"N 74°03'55"W	
	(11/03 CG1)		
<b>12333</b>	32Ed. 10/02	LAST NM 12/03	16/03
Relocate	Buoy "13" from 40°39'55.1"N 74°03'57.8"W	40°39'56.3"N 74°03'58.8"W	
	to		
	(11/03 CG1)		
<b>★12334</b>	65Ed. 1/03	LAST NM 12/03	16/03
Delete	Buoy "A"	40°40'33.1"N 74°03'33.0"W	
	(See 12/03-12334)		
Relocate	Buoy "5" from 40°40'24.9"N 74°03'29.5"W	40°40'24.6"N 74°03'30.3"W	
	to		
	Buoy "6" from 40°40'38.3"N 74°03'28.2"W	40°40'31.5"N 74°03'35.6"W	
	to		
	Buoy "13" from 40°39'55.0"N 74°03'57.5"W	40°39'56.3"N 74°03'58.8"W	
	to		
	Buoy "18" from 40°40'17.6"N 74°03'38.9"W	40°40'17.4"N 74°03'37.3"W	
	to		
Add	Buoy "8" R, nun	40°40'44.1"N 74°03'55.0"W	
	(11/03 CG1)		
<b>13274</b>	24Ed. 5/12/01	LAST NM 2/03	16/03
	<b>(Side B)</b>		
Change	Legend to "29 FT FOR A MID-WIDTH OF		
	150 FT JAN-MAR 2002"	42°31'45"N 70°51'35"W	
	(NOS)		
<b>★13275</b>	27Ed. 7/24/99	LAST NM 7/03	16/03
Change	Legend to "29 FT FOR A MID-WIDTH OF		
	150 FT JAN-MAR 2002"	42°31'46"N 70°51'36"W	
	(NOS)		
<b>13290</b>	34Ed. 2/24/01	LAST NM 7/03	16/03
Change	Buoy to "1" G, Fl G 6s	43°38'55"N 70°15'03"W	
	(11/03 CG1)		
<b>★13292</b>	36Ed. 3/16/02	LAST NM 7/03	16/03
Change	Buoy to "1" G, Fl G 6s	43°38'55.2"N 70°15'03.0"W	
	(11/03 CG1)		
<b>14223</b>	18Ed. 7/15/95	LAST NM 3/03	16/03
Relocate	Buoy "D88" from 46°27'06"N 72°15'44"W to	46°27'17"N 72°15'31"W	
	(4(1314)00 Ottawa)		
<b>14225</b>	17Ed. 4/15/95	LAST NM 38/02	16/03
Delete	Buoy "D84"	46°27'44"N 72°15'14"W	
	Beacon	46°28'44"N 72°15'15"W	
Relocate	Buoy "D88" from 46°27'06"N 72°15'44"W to	46°27'17"N 72°15'31"W	
	(4(1313, 1314)00 Ottawa)		
<b>14244</b>	5Ed. 5/13/95	LAST NM 19/02	16/03
Delete	Light	48°14'42"N 70°10'47"W	
	(7(1203)00 Ottawa)		

**15562** Ed. 6/13/97 LAST NM N41/02 N16/03  
 Delete Depth 18.3 meters 68°22'25"N 102°26'11"W  
 (8(7783)02 Ottawa)

**★16549** 14Ed. 6/23/90 LAST NM 4/03 16/03  
 (Inset)  
 Delete Depth 1 fathom 4 feet 55°03'33.1"N 162°19'28.1"W  
 Substitute Depth 0 fathom 4 feet for 2 fathoms 1 foot  
 55°03'27.4"N 162°19'41.9"W  
 Change Legend to "14 FT AUG 2002" 55°03'33.0"N 162°19'29.0"W  
 Add Depth 1 fathom 5 feet 55°03'28.2"N 162°19'38.6"W  
 Depth 2 fathoms 1 foot 55°03'29.0"N 162°19'38.6"W  
 Depth 2 fathoms 1 foot 55°03'35.7"N 162°19'37.9"W  
 (NOS)

**★16592** 9Ed. 9/1/90 LAST NM 48/97 16/03  
 (Inset)  
 Delete Depth 1 ½ fathoms 57°12'30.6"N 153°18'04.1"W  
 Add Depth 1 ¼ fathoms 57°12'31.5"N 153°18'03.9"W  
 (NOS)

**16660** 28Ed. 9/8/01 LAST NM 6/03 16/03  
 Change Legend to "36 FT SEP 2002" 61°12.0'N 150°05.4'W  
 (Supersedes 6/03-16660)  
 (NOS)

**16663** 6Ed. 5/12/01 LAST NM 6/03 16/03  
 Change Legend to "36 FEET SEP 2002" 61°12'02"N 150°05'24"W  
 (Supersedes 6/03-16663)  
 (NOS)

**★16665** 7Ed. 3/31/01 LAST NM 6/03 16/03  
 Change Legend to "36 FEET FOR A WIDTH OF 1017  
 FEET SEP 2002" 61°12'02"N 150°05'19"W  
 (Supersedes 6/03-16665)  
 (NOS)

**16700** 27Ed. 3/9/02 LAST NM 9/03 16/03  
 Substitute Rock awash [K12] for depth 4 fathoms  
 60°48.7'N 147°44.2'W  
 Depth 2 ½ fathoms for 3 ½ fathoms 61°04.8'N 146°39.9'W  
 (NOS)

**16705** 19Ed. 11/3/01 LAST NM 49/02 16/03  
 Change Legend to "14010" 60°40'27"N 147°38'06"W  
 Add Rock awash [K12] 60°48'39"N 147°44'15"W  
 (NOS)

**★16707** 10Ed. 9/29/01 LAST NM 37/02 16/03  
 Delete Depth 5 fathoms 3 feet 61°05'01"N 146°37'00"W  
 Substitute Depth 5 fathoms 2 feet for 14 fathoms  
 61°05'20"N 146°25'01"W  
 Depth 2 fathoms 4 feet for 3 fathoms 3 feet  
 61°04'48"N 146°39'52"W  
 Add Dotted-line circle (shoal) with green tint  
 61°05'28"N 146°17'01"W  
 Depth 7 fathoms 3 feet 61°05'23"N 146°25'21"W  
 Depth 8 fathoms 4 feet 61°05'20"N 146°25'17"W  
 Depth 6 fathoms 5 feet 61°05'21"N 146°25'42"W  
 Depth 1 fathom 1 foot 61°05'05"N 146°36'07"W  
 Depth 2 fathoms 5 feet 61°04'19"N 146°38'55"W  
 Depth 2 fathoms 3 feet 61°05'01"N 146°37'02"W  
 Depth 3 fathoms 3 feet 61°05'04"N 146°36'59"W  
 Depth 2 fathoms 5 feet 61°04'57"N 146°39'12"W  
 (Inset Valdez Narrows)  
 Delete Depth 5 fathoms 3 feet 61°05'01.0"N 146°37'00.3"W  
 Substitute Depth 2 fathoms 4 feet for 3 fathoms 3 feet  
 61°04'47.5"N 146°39'52.3"W  
 Add Depth 1 fathom 1 foot 61°05'04.8"N 146°36'07.4"W  
 Depth 2 fathoms 5 feet 61°04'18.6"N 146°38'54.5"W

Depth 2 fathoms 3 feet 61°05'00.5"N 146°37'02.0"W  
 Depth 3 fathoms 3 feet 61°05'03.9"N 146°36'58.7"W  
 Depth 2 fathoms 5 feet 61°04'56.5"N 146°39'12.3"W

(Inset Valdez...Terminal)  
 Add Depth 7 fathoms 3 feet 61°05'22.5"N 146°25'21.3"W  
 Depth 8 fathoms 4 feet 61°05'19.5"N 146°25'17.3"W  
 Depth 5 fathoms 2 feet 61°05'19.9"N 146°25'00.6"W  
 (NOS)

**16708** 25Ed. 10/6/01 LAST NM 49/02 16/03  
 Substitute Depth 6 ¾ fathoms for 13 fathoms  
 61°05'21"N 146°25'42"W  
 Depth 2 ¾ fathoms for 21 fathoms 61°04'19"N 146°38'55"W  
 Depth 2 ½ fathoms for 3 ½ fathoms 61°04'48"N 146°39'52"W  
 Add Dotted-line circle (shoal) with green tint  
 61°05'28"N 146°17'01"W  
 (NOS)

**★16712** 1Ed. 9/25/99 LAST NM 1/00 16/03  
 Add Rock awash [K12] 60°48'39"N 147°44'15"W  
 (NOS)

**17315** 23Ed. 11/02 LAST NM 2/03 16/03  
 Add Light flare to light dot "2" 58°19'36"N 134°41'18"W  
 (NOS)

**★17426** 13Ed. 7/11/92 LAST NM 1/03 16/03  
 Substitute Depth 5 ½ fathoms for 7 fathoms 55°28'36"N 132°38'45"W  
 Depth 3 ¾ fathoms for 4 ¼ fathoms  
 55°28'32"N 132°38'38"W  
 Add Depth 6 ¼ fathoms 55°28'30"N 132°38'42"W  
 Depth 8 fathoms 55°28'27"N 132°38'37"W  
 Depth 5 ½ fathoms 55°28'40"N 132°38'58"W  
 (Inset Hollis Anchorage)  
 Substitute Depth 5 ½ fathoms for 7 fathoms  
 55°28'36.9"N 132°38'45.5"W  
 Depth 3 ¾ fathoms for 4 ¼ fathoms  
 55°28'32.0"N 132°38'38.0"W  
 Add Depth 6 ¼ fathoms 55°28'30.0"N 132°38'42.0"W  
 Depth 8 fathoms 55°28'27.0"N 132°38'37.0"W  
 Depth 5 ½ fathoms 55°28'40.0"N 132°38'58.0"W  
 (NOS)

**17515** 7Ed. 7/15/95 LAST NM 15/03 16/03  
 Change Visibility (range) of light to 17M 49°29'13"N 124°26'04"W  
 (Can LL)

**17517** 8Ed. 5/6/95 LAST NM 15/03 16/03  
 Change Visibility (range) of light to 17M 49°21'02"N 124°09'37"W  
 Light to Q 10m 6M 49°25'05"N 123°18'24"W  
 Visibility (range) of light to 15M 49°19'50"N 123°15'50"W  
 Add Visibility (range) 5M to light 49°23'56"N 123°29'55"W  
 (Can LL)

**17518** 7Ed. 1/7/95 LAST NM 48/02 16/03  
 Change Visibility (range) of light to 15M 49°19'50"N 123°15'53"W  
 Visibility (range) of light to 8M 49°19'09"N 123°08'47"W  
 Light to Iso R 2s 12m 10M 49°18'50"N 123°08'29"W  
 (Can LL)

**17519** 13Ed. 2/11/84 LAST NM 4/02 16/03  
 Change Light to Q 10m 6M 49°25'06"N 123°18'25"W  
 Visibility (range) of light to 15M 49°19'50"N 123°15'48"W  
 Visibility (range) of light to 8M 49°19'09"N 123°08'47"W  
 Visibility (range) of light to 10M 49°18'50"N 123°08'29"W  
 Add Visibility (range) 5M to light 49°23'56"N 123°29'55"W  
 (Can LL)

## SECTION I

NM 16/03

<b>17520</b>	2Ed. 5/13/95	LAST NM N6/03	N16/03	
	Substitute	Depth 12.7 meters Wk [K26] for 17.8 meters Wk	49°12'56"N 123°53'09"W	
	Change	Visibility (range) of light to 17M	49°29'13"N 124°26'04"W	
		Visibility (range) of light to 17M	49°21'02"N 124°09'37"W	
	Add	Depth 11.5 meters Wk [K26] marked by buoy Y, pillar (Priv)	49°12'49"N 123°53'09"W	
		(8(3447)02 Ottawa; Can LL)		
<b>17548</b>	28Ed. 8/12/95	LAST NM 45/01	16/03	
	Add	Wreck [K29]	48°57'19"N 125°15'22"W	
		(12(3670)02 Ottawa)		
<b>18400</b>	43Ed. 12/02	LAST NM 6/03	16/03	
	Change	Visibility (range) of light to 15M	49°19.8'N 123°15.8'W	
		(Can LL)		
<b>18405</b>	12Ed. 12/10/94	LAST NM 43/02	16/03	
	Change	Visibility (range) of light to 8M	49°19'09.1"N 123°08'46.7"W	
		Visibility (range) of light to 10M	49°18'50.4"N 123°08'29.1"W	
		Visibility (range) of light to 10M	49°18'45.2"N 123°07'39.6"W	
		Light to F WRG 63m 14M	49°18'53.0"N 123°08'21.0"W	
		Note: Sectors remain unchanged		
		Light to F WRG 63m 14M	49°18'57.2"N 123°08'16.9"W	
		Note: Sectors remain unchanged		
		(Can LL)		
<b>18406</b>	5Ed. 3/4/95	LAST NM 5/02	16/03	
	Change	Visibility (range) of light to 15M	49°19'50.0"N 123°15'53.0"W	
		Visibility (range) of light to 8M	49°19'09.1"N 123°08'46.7"W	
		Visibility (range) of light to 10M	49°18'50.4"N 123°08'29.1"W	
		(Can LL)		
<b>18411</b>	Ed. 1/30/98	LAST NM N42/01	N16/03	
	Substitute	Depth 12.7 meters Wk [K26] for 17.8 meters Wk	49°12'56"N 123°53'09"W	
	Add	Depth 11.5 meters Wk [K26] marked by buoy Y, pillar (Priv)	49°12'49"N 123°53'09"W	
		(8(3447)02 Ottawa)		
<b>18652</b>	31Ed. 9/29/01	LAST NM 12/03	16/03	
		(Page E)		
	Relocate	Light "5" from 38°03'56"N 121°50'04"W to 38°03'56"N 121°50'08"W		
		Light "7" from 38°03'41"N 121°48'33"W to 38°03'44"N 121°48'32"W		
		(7/03 CG11)		
<b>18654</b>	42Ed. 4/6/02	LAST NM 12/03	16/03	
	Change	Height of light "3" to 15ft	38°04'27"N 122°14'49"W	
		(8/03 CG11)		
<b>★18655</b>	58Ed. 12/22/01	LAST NM 12/03	16/03	
	Change	Height of light "3" to 15ft	38°04'25"N 122°14'46"W	
		(8/03 CG11)		
<b>18656</b>	52Ed. 3/31/01	LAST NM 7/03	16/03	
	Relocate	Light "5" from 38°03'56"N 121°50'05"W to 38°03'56"N 121°50'08"W		
		Light "7" from 38°03'41"N 121°48'32"W to 38°03'44"N 121°48'32"W		
		(7/03 CG11)		
<b>★18659</b>	14Ed. 9/18/99	LAST NM 7/03	16/03	
	Relocate	Light "5" from 38°03'56.1"N 121°50'05.0"W to 38°03'56.3"N 121°50'08.5"W		
		Light "7" from 38°03'41.8"N 121°48'31.9"W to 38°03'44.2"N 121°48'31.7"W		
		(7/03 CG11)		
<b>18660</b>	1Ed. 9/25/99	LAST NM 7/03	16/03	
		(Lower Panel)		
	Relocate	Light "7" from 38°03'42.1"N 121°48'33.2"W to 38°03'44.2"N 121°48'31.7"W		
		(7/03 CG11)		
<b>18661</b>	27Ed. 2/03	LAST NM 15/03	16/03	
		(Side B)		
	Relocate	Light "7" from 38°03'41"N 121°48'33"W to 38°03'44"N 121°48'32"W		
		(7/03 CG11)		
<b>18749</b>	38Ed. 12/1/01	LAST NM 6/03	16/03	
	Relocate	Buoy "5" from 33°41'53.1"N 118°14'41.4"W to 33°41'50.6"N 118°14'40.3"W		
		Buoy "6" from 33°41'57.4"N 118°14'28.2"W to 33°41'54.9"N 118°14'27.0"W		
		(Inset)		
	Delete	Buoys (3) in vicinity	33°43'56"N 118°05'19"W	
	Add	Legend "(see note I)"	33°43'56"N 118°05'19"W	
		Note		
		"Note I		
		Due to frequently changing conditions, buoys in Anaheim Inner Harbor are not charted."		
		(8, 9/03 CG11)	33°44'06"N 118°04'12"W	
<b>★18751</b>	42Ed. 12/1/01	LAST NM 6/03	16/03	
	Relocate	Buoy "5" from 33°41'53.1"N 118°14'41.4"W to 33°41'50.6"N 118°14'40.3"W		
		Buoy "6" from 33°41'57.4"N 118°14'28.2"W to 33°41'54.9"N 118°14'27.0"W		
		(8/03 CG11)		
<b>★18758</b>	6Ed. 6/02	LAST NM 35/02	16/03	
	Relocate	Buoy from 33°12'28.7"N 117°24'07.4"W to 33°12'28.7"N 117°24'08.7"W		
		Buoy "6" from 33°12'47.6"N 117°24'13.1"W to 33°12'45.9"N 117°24'14.8"W		
	Add	Buoy Fl Y 4s (PD) with legend "Wave buoy"	33°13'18"N 117°26'00"W	
		(7, 9/03 CG11)		
<b>18774</b>	10Ed. 6/02	LAST NM 10/03	16/03	
		(Inset)		
	Relocate	Buoy from 33°12'28.7"N 117°24'07.4"W to 33°12'28.7"N 117°24'08.7"W		
		Buoy "6" from 33°12'47.6"N 117°24'13.1"W to 33°12'45.9"N 117°24'14.8"W		
		(7/03 CG11)		
<b>19002</b>	9Ed. 3/1/97	LAST NM N51/02	N16/03	
	Change	Visibility (range) of light to 22M	19°31.1'N 154°48.6'W	
		(8/03 CG14)		
<b>19007</b>	16Ed. 2/12/94	LAST NM 51/02	16/03	
	Change	Visibility (range) of light to 22M	19°31.1'N 154°49.0'W	
		(8/03 CG14)		
<b>19008</b>	4Ed. 11/3/84	LAST NM 42/01	16/03	
	Change	Visibility (range) of light to 22M	19°31.0'N 154°49.0'W	
		(8/03 CG14)		
<b>19009</b>	4Ed. 2/16/85	LAST NM 42/01	16/03	
	Change	Visibility (range) of light to 22M	19°30.9'N 154°49.1'W	
		(8/03 CG14)		
<b>19320</b>	16Ed. 12/14/96	LAST NM 5/03	16/03	
	Change	Visibility (range) of light to 22M	19°30.9'N 154°48.7'W	
		(8/03 CG14)		
<b>★19359</b>	10Ed. 8/15/98	LAST NM 12/03	16/03	
	Change	Designation of beacon "7A" to "9"	21°29'32.5"N 157°49'49.0"W	

(continued on next page)

**19359** (Continued)  
 Designation of beacon "9" to "11"  
 21°29'17.6"N 157°49'48.5"W  
 Designation of beacon "8" to "12"  
 21°29'14.6"N 157°49'56.1"W  
 Designation of light "10" to "14"  
 21°28'23.1"N 157°49'44.3"W  
 Designation of beacon "11" to "15"  
 21°28'13.3"N 157°49'34.2"W  
 Designation of buoy "11A" to "17"  
 21°27'54.3"N 157°49'24.5"W  
 Designation of light "12" to "18"  
 21°27'39.7"N 157°49'18.7"W  
 Designation of buoy "12A" to "20"  
 21°27'21.8"N 157°48'42.8"W  
 Designation of light "13" to "21"  
 21°27'12.9"N 157°48'13.2"W  
 Designation of light "16" to "22"  
 21°26'44.8"N 157°47'38.2"W  
 Designation of beacon "17" to "23"  
 21°26'46.3"N 157°47'27.0"W  
 Designation of light "19" to "25"  
 21°26'36.6"N 157°47'19.6"W  
 Designation of buoy "20" to "26"  
 21°26'13.8"N 157°47'12.0"W  
 (8/03 CG14)

**21033** 46Ed. 8/17/96 LAST NM 1/03 16/03  
 Add Depth 187 meters "Rep (1975)" [I3.2] 0°35.0'S 81°49.0'W  
 (11(1348)03 Taunton)

**21036** 7Ed. 8/10/96 LAST NM 1/03 16/03  
 Add Depth 187 meters "Rep (1975)" [I3.2] 0°35.0'S 81°49.0'W  
 (11(1348)03 Taunton)

**21478** 3Ed. 10/29/94 LAST NM 9/03 16/03  
 Change Range light, front to Fl 3s 17m 13M  
 14°42'36.5"N 92°23'54.5"W  
 Light to Fl R 5s 8m 8M 14°41'44.8"N 92°24'36.3"W  
 (Mex LL)

**21510** 1Ed. 8/31/85 LAST NM 9/03 16/03  
 Change Range light, front to Fl 3s 17m 13M 14°42.6'N 92°23.9'W  
 (Mex LL)

**22004** 38Ed. 7/5/97 LAST NM 52/02 16/03  
 Add Depth 187 meters "Rep (1975)" [I3.2] 0°35.0'S 81°49.0'W  
 (11(1348)03 Taunton)

**24461** 4Ed. 8/10/96 LAST NM 7/01 16/03  
 Add Light Fl(2) 15s 25m 15M 11°59'24"N 68°38'36"W  
 (11(1353)03 Taunton)

**24462** 5Ed. 10/5/96 LAST NM 47/02 16/03  
 Add Light Fl(2) 15s 25m 15M 11°59'24"N 68°38'36"W  
 (11(1353)03 Taunton)

**25570** 3Ed. 7/29/95 LAST NM 31/02 16/03  
 Delete Rock awash (PA) and legend "Rep"  
 17°05'00"N 61°54'40"W  
 (Supersedes 31/02-25570)  
 (11(1351)03 Taunton)

**25608** 21Ed. 7/22/95 LAST NM 17/02 16/03  
 (Plan D)  
 Delete Light from dolphin 17°17'24.0"N 62°43'31.0"W  
 Note: Legend "Dns" remains  
 Light from dolphin 17°17'24.0"N 62°43'14.0"W  
 Note: Legend "Dns" remains  
 Solid line joining 17°17'30.5"N 62°43'23.0"W  
 17°17'24.8"N 62°43'23.0"W  
 17°17'23.5"N 62°43'25.7"W  
 17°17'23.5"N 62°43'29.0"W  
 Solid line joining 17°17'24.8"N 62°43'23.0"W  
 17°17'23.5"N 62°43'19.2"W  
 17°17'23.5"N 62°43'16.0"W  
 Buoy (mooring) 17°17'06.0"N 62°42'41.3"W

Add Double solid line with land tint (pier) [F14]  
 between 17°17'30.5"N 62°43'23.0"W  
 17°17'19.3"N 62°43'23.0"W  
 Position circle "Dol" [F20] 17°17'17.2"N 62°43'23.0"W  
 Position circle "Dol" [F20] 17°17'15.1"N 62°43'23.0"W  
 Position circle "Dol" [F20] 17°17'06.8"N 62°42'37.5"W  
 Light Fl Y with legend "Dol" 17°17'13.5"N 62°43'23.0"W  
 (9(992), 11(1354)03 Taunton)

**26081** 8Ed. 5/11/85 LAST NM 46/02 16/03  
 Relocate Buoy "12" from 12°34'21"N 81°41'54"W to  
 12°34'11"N 81°41'51"W  
 (1/03 Bogota)

**29015** 5Ed. 11/25/95 LAST NM 22/02 16/03  
 Delete Depth 36 meters and enclosing depth contour  
 (100-meter) 66°48.0'S 142°27.0'E  
 Depth 88 meters and enclosing depth contour  
 (100-meter) 66°56.0'S 144°45.0'E

Add Depth 18 meters, blue tint and enclosing depth  
 contour (30-meter) 66°53.0'S 142°26.0'E  
 Depth 9 meters, blue tint and enclosing depth  
 contour (30-meter) 67°00.0'S 144°35.0'E  
 (11(1349)03 Taunton)

**36010** 27Ed. 10/4/97 LAST NM 15/03 16/03  
 Add Depth 13 meters Wk 53°31.8'N 3°19.7'W  
 (11(1273)03 Taunton)

**36120** 9Ed. 2/8/97 LAST NM 8/03 16/03  
 Add Depth 13 meters Wk 53°31.8'N 3°19.7'W  
 (11(1273)03 Taunton)

**36123** 25Ed. 8/23/97 LAST NM 11/03 16/03  
 Add Depth 13 meters Wk 53°31.8'N 3°19.7'W  
 (11(1273)03 Taunton)

**36124** 18Ed. 4/4/98 LAST NM 41/00 16/03  
 Add Depth 13 meters Wk 53°31'48.0"N 3°19'43.2"W  
 (11(1273)03 Taunton)

**37090** 8Ed. 2/8/97 LAST NM 14/03 16/03  
 Substitute Foul ground symbol [K31] for  
 dangerous wreck 49°34.8'N 1°08.8'W  
 (35(25)00 Brest)

**37095** 3Ed. 10/26/96 LAST NM 15/03 16/03  
 Add Foul ground symbol [K31] 49°34.8'N 1°08.8'W  
 (35(25)00 Brest)

**37140** 33Ed. 5/25/96 LAST NM 6/03 16/03  
 Substitute Danger circle "Foul" [K31] for  
 dangerous wreck (Mast) 51°42.7'N 1°32.1'E  
 (10(1118)03 Taunton)

**37147** 15Ed. 2/15/97 LAST NM 12/03 16/03  
 Substitute Danger circle "Foul" [K31] for  
 dangerous wreck (Mast) 51°42'39"N 1°32'08"E  
 (10(1118)03 Taunton)

**37401** 9Ed. 1/31/98 LAST NM 14/03 16/03  
 Add "ANCH AND FISH PROHIB" [N2.1] area  
 bound by purple composite line joining  
 46°04'32.4"N 1°12'39.6"W  
 46°04'32.6"N 1°12'03.0"W  
 46°04'07.2"N 1°12'00.6"W  
 46°04'06.6"N 1°12'37.8"W  
 Buoy Y, conical, "X" topmark 46°04'19.8"N 1°12'21.0"W  
 "ANCH AND FISH PROHIB" [N2.1] area  
 bound by purple composite line joining  
 46°02'32.4"N 1°12'21.0"W  
 46°02'57.6"N 1°11'43.8"W  
 46°02'31.2"N 1°11'42.0"W  
 46°02'30.6"N 1°12'19.8"W

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## SECTION I

NM 16/03

<b>37401</b>	(Continued)								57°27'48"N 11°53'31"E 57°27'30"N 11°54'31"E	
		Buoy Y, conical, "X" topmark (31(9)00 Brest)	46°02'43.8"N 1°12'01.8"W					(51-52(1214)02 Kobenhavn)		
<b>43375</b>	7Ed. 8/22/92	LAST NM 12/03	16/03							
	Add	Light VQG (41(1110)99 Norrkoping; Swd LL)	58°15'42"N 11°23'11"E					<b>44044</b>	6Ed. 11/9/96	
								Add	Submarine cable [L30.1] joining	
									57°18.5'N 11°11.8'E 57°18.7'N 11°12.2'E 57°19.5'N 11°14.9'E 57°20.5'N 11°18.2'E	
<b>43384</b>	1Ed. 9/14/91	LAST NM 15/03	16/03					(51-52(1214)02 Kobenhavn)		
	Add	Light VQG 10m 3M with obscured sector 270°-070° (41(1110)99 Norrkoping; Swd LL)	58°15'42"N 11°23'11"E					<b>44065</b>	7Ed. 3/27/93	
								Add	Depth 2.6 meters Rk [K14.2] Depth 3.6 meters Rk [K14.2] Depth 3 meters Rk [K14.2]	
									54°25'53"N 10°14'56"E 54°25'29"N 10°14'00"E 54°28'26"N 10°10'36"E	
<b>44036</b>	5Ed. 8/31/96	LAST NM 13/03	16/03					(35(33), 50(33)02 Hamburg)		
	Add	Submarine cable [L30.1] joining	57°18'33"N 11°11'47"E 57°21'38"N 11°21'53"E 57°26'40"N 11°37'54"E					<b>44067</b>	22Ed. 10/19/96	
								Add	Depth 2.6 meters Rk [K14.2] Depth 3.6 meters Rk [K14.2] Depth 3 meters Rk [K14.2]	
		Position circle "Windmotors (4)" [E26]	57°26'38"N 10°33'44"E						54°25.9'N 10°14.9'E 54°25.5'N 10°14.0'E 54°28.4'N 10°10.6'E	
		Position circle [E26]	57°26'31"N 10°33'55"E					(35(33), 50(33)02 Hamburg)		
		Position circle [E26]	57°26'45"N 10°33'32"E					<b>44178</b>	2Ed. 4/13/96	
		Position circle [E26]	57°26'51"N 10°33'20"E					Relocate	Buoy from 58°46'32"N 17°51'05"E to 58°46'29"N 17°51'06"E	
		Buoy Y, conical with legend "1 Apr-15 Nov"	57°36'32"N 10°27'14"E					(41(1099)99 Norrkoping)		
		Buoy Y, conical with legend "1 Apr-15 Nov"	57°35'20"N 10°27'48"E					<b>44179</b>	2Ed. 5/25/96	
		(25(623), 39(933), 51-52(1214)02 Kobenhavn)						Relocate	Buoy from 59°04'00"N 18°10'18"E to 59°03'59"N 18°10'19"E Buoy from 59°03'58"N 18°10'18"E to 59°03'57"N 18°10'19"E	
<b>44037</b>	5Ed. 8/31/96	LAST NM 40/01	16/03					(36(978)99 Norrkoping)		
	Add	Submarine cable [L30.1] between	57°18.5'N 11°11.8'E 57°19.5'N 11°14.9'E					<b>44186</b>	2Ed. 6/15/96	
		(51-52(1214)02 Kobenhavn)						Relocate	Buoy from 59°29'09"N 18°44'40"E to 59°29'09"N 18°44'44"E	
<b>44040</b>	23Ed. 7/20/96	LAST NM 13/03	16/03					(25(736)99 Norrkoping)		
	Add	Submarine cable [L30.1] joining	57°18.5'N 11°11.8'E 57°21.6'N 11°21.8'E 57°27.0'N 11°38.8'E 57°27.9'N 11°45.0'E 57°28.2'N 11°53.1'E 57°27.5'N 11°54.5'E					<b>44206</b>	1Ed. 12/27/86	
								Add	Buoy YB, spar, double cone topmark points downward	
		(Plan A)							61°36'01"N 17°28'39"E	
		Add	Buoy Y, spar, "X" topmark	57°26'28"N 10°34'00"E				(33(917)99 Norrkoping)		
			Position circle "Windmotor" [E26]	57°26'31"N 10°33'55"E				<b>44220</b>	5Ed. 8/23/97	
			Position circle "Windmotor" [E26]	57°26'38"N 10°33'44"E				Add	Buoy YB, spar, double cone topmark points downward	
			Position circle "Windmotor" [E26]	57°26'45"N 10°33'32"E					61°36.0'N 17°28.7'E	
			Position circle "Windmotor" [E26]	57°26'51"N 10°33'20"E				(33(917)99 Norrkoping)		
		(39(933), 49(1155), 51-52(1214)02 Kobenhavn)						<b>44240</b>	8Ed. 7/19/97	
<b>44041</b>	7Ed. 4/3/93	LAST NM 13/03	16/03					Delete	Buoy Buoy Buoy Buoy	
	Add	Submarine cable [L30.1] joining	57°27'30"N 11°42'14"E 57°27'55"N 11°45'00"E 57°27'46"N 11°46'36"E 57°27'59"N 11°47'40"E 57°27'53"N 11°49'24"E 57°27'59"N 11°49'30"E 57°28'03"N 11°51'05"E 57°28'00"N 11°51'44"E 57°28'11"N 11°53'05"E 57°28'06"N 11°53'19"E 57°27'54"N 11°53'22"E 57°27'48"N 11°53'31"E 57°27'43"N 11°53'59"E 57°27'30"N 11°54'31"E						Change	Sectors of light between 028° and 040° to green 028°-035°, white-040°
		(51-52(1214)02 Kobenhavn)							63°33.2'N 20°45.7'E 63°33.4'N 20°50.4'E 63°25.2'N 20°35.9'E 63°25.4'N 20°33.7'E	
								Add	Buoy BYB, pillar, double cone topmark bases together, Q(3)	
									63°25.5'N 20°33.9'E	
									Buoy R, spar Buoy R, spar Buoy R, spar Buoy R, spar Buoy R, spar	
									63°28.1'N 20°37.9'E 63°32.2'N 20°41.1'E 63°32.7'N 20°45.4'E 63°33.5'N 20°52.4'E 63°35.4'N 21°03.3'E	
<b>44043</b>	8Ed. 11/30/96	LAST NM 13/03	16/03							
	Add	Submarine cable [L30.1] joining	57°23'10"N 11°26'50"E 57°23'28"N 11°27'45"E 57°23'55"N 11°29'04"E 57°26'57"N 11°38'45"E 57°27'49"N 11°44'18"E 57°27'55"N 11°45'00"E 57°27'46"N 11°46'36"E 57°27'59"N 11°47'40"E 57°27'53"N 11°49'24"E 57°27'59"N 11°49'30"E 57°28'03"N 11°51'05"E 57°28'00"N 11°51'44"E 57°28'11"N 11°53'05"E 57°28'06"N 11°53'19"E							Buoy BY, spar, double cone topmark points upward, Q
									63°32.9'N 20°51.0'E	
									Buoy G, spar Buoy G, spar Buoy G, spar Buoy G, spar, Fl(2) G 6s	
									63°32.3'N 20°46.2'E 63°31.2'N 20°43.8'E 63°27.0'N 20°38.3'E 63°25.2'N 20°35.7'E	

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**44240** (Continued)  
 Dashed line (dredged channel limit) [I20]  
 joining 63°25.5'N 20°33.9'E  
 63°28.1'N 20°37.9'E  
 63°32.2'N 20°41.1'E  
 63°32.7'N 20°45.4'E  
 63°33.5'N 20°52.4'E  
 63°35.4'N 21°03.3'E

Dashed line (dredged channel limit) [I20]  
 joining 63°34.7'N 21°03.9'E  
 63°32.9'N 20°51.0'E  
 63°32.3'N 20°46.2'E  
 63°31.2'N 20°43.8'E  
 63°27.0'N 20°38.3'E

Legend "16.2 m"  
 (25(734)99 Norrkoping) 63°31.5'N 20°43.0'E

**51165** 8Ed. 3/11/00 LAST NM 14/03 16/03  
 Add Buoy Y, spar, "X" topmark 36°35'05.4"N 6°16'30.0"W  
 Buoy Y, spar, "X" topmark 36°35'34.2"N 6°16'40.2"W

Submarine pipeline [L41.1] between  
 36°35'10.8"N 6°16'10.2"W  
 36°35'05.4"N 6°16'30.0"W

Submarine pipeline [L41.1] between  
 36°35'34.2"N 6°16'19.2"W  
 36°35'34.2"N 6°16'40.2"W

(8(144)03 Cadiz)

**51167** 6Ed. 3/11/00 LAST NM 10/03 16/03  
 Add Buoy Y, spar, "X" topmark 36°35'05.4"N 6°16'30.0"W  
 Buoy Y, spar, "X" topmark 36°35'34.2"N 6°16'40.2"W

Submarine pipeline [L41.1] between  
 36°35'10.8"N 6°16'10.2"W  
 36°35'05.4"N 6°16'30.0"W

Submarine pipeline [L41.1] between  
 36°35'34.2"N 6°16'19.2"W  
 36°35'34.2"N 6°16'40.2"W

(8(144)03 Cadiz)

**51180** 5Ed. 12/12/98 LAST NM 13/03 16/03  
 Substitute Depth 5.1 meters for  
 dangerous submerged rock 35°29.1'N 6°02.2'W  
 (50(870)02 Cadiz)

**51222** 6Ed. 2/17/96 LAST NM 51/02 16/03  
 Delete "NOTE" 33°35'08.0"N 7°34'24.0"W  
 (Supersedes 51/02-51222)

Add Chartlet A, depicting changes in hydrography,  
 topography and aids to navigation from  
 Subsection I-2 33°36'30.0"N 7°36'30.0"W  
 Chartlet B, depicting changes in hydrography,  
 topography and aids to navigation from  
 Subsection I-2 33°36'30.0"N 7°35'30.0"W  
 (Supersedes 2/99-51222)  
 (NTM0043/2002)

**51260** 4Ed. 8/10/96 LAST NM 50/02 16/03  
 Delete Purple outline of chart 51344 28°41.6'N 17°45.6'W  
 Purple outline of chart 51344 28°06.2'N 15°26.0'W

Add Submarine cable [L30.1] joining 28°23.0'N 16°21.3'W  
 28°23.1'N 16°19.9'W  
 28°26.6'N 16°08.5'W

Submarine cable [L30.1] between 28°22.9'N 16°19.5'W  
 28°24.7'N 16°09.2'W

Submarine cable [L30.1] joining 28°12.5'N 15°18.0'W  
 28°07.5'N 15°18.5'W  
 28°04.7'N 15°19.1'W  
 28°03.8'N 15°19.7'W  
 28°03.2'N 15°23.2'W  
 28°02.7'N 15°24.8'W

Submarine cable [L30.1] joining 28°17.0'N 15°24.0'W  
 28°14.5'N 15°22.4'W  
 28°12.6'N 15°19.6'W  
 28°11.6'N 15°19.1'W  
 28°07.2'N 15°20.2'W

28°05.1'N 15°19.9'W  
 28°04.2'N 15°20.3'W  
 28°03.4'N 15°23.4'W  
 28°02.7'N 15°24.8'W

Purple outline of chart 51344 Panel A joining  
 28°03.0'N 15°27.5'W  
 28°03.0'N 15°14.0'W  
 28°06.7'N 15°14.0'W  
 28°06.7'N 15°19.7'W  
 28°15.2'N 15°19.7'W  
 28°15.2'N 15°27.5'W

Purple outline of chart 51344 Panel B joining  
 28°37.0'N 17°46.4'W  
 28°37.0'N 17°42.9'W  
 28°43.0'N 17°42.9'W  
 28°43.0'N 17°46.4'W

(NIMA; 44(754)02 Cadiz)

**51341** 23Ed. 5/18/96 LAST NM 6/03 16/03  
 Add Submarine cable [L30.1] joining  
 28°23'00.0"N 16°21'19.8"W  
 28°23'06.6"N 16°19'56.4"W  
 28°26'36.0"N 16°08'32.4"W

Submarine cable [L30.1] joining  
 28°23'00.0"N 16°21'19.8"W  
 28°22'51.0"N 16°20'39.0"W  
 28°22'55.2"N 16°19'30.0"W  
 28°24'40.8"N 16°09'10.2"W

(44(754)02 Cadiz)

**51344** 2Ed. 12/28/96 LAST NM 7/03 16/03  
 (Panel A)  
 Add Submarine cable [L30.1] joining  
 28°06'41.5"N 15°18'41.2"W  
 28°04'42.0"N 15°19'04.8"W  
 28°03'46.8"N 15°19'42.0"W  
 28°03'13.2"N 15°23'13.2"W  
 28°03'00.6"N 15°23'50.5"W

Submarine cable [L30.1] joining  
 28°09'25.0"N 15°19'40.5"W  
 28°07'12.0"N 15°20'10.8"W  
 28°05'06.0"N 15°19'52.2"W  
 28°04'13.2"N 15°20'16.8"W  
 28°03'22.8"N 15°23'21.6"W  
 28°03'00.6"N 15°24'07.9"W

(44(754)02 Cadiz)

**52040** 17Ed. 9/27/86 LAST NM 13/03 16/03  
 Add Danger circle [K40] "Obstn (Marine farm)"  
 36°44.4'N 3°36.5'W  
 (40(699)02 Cadiz)

**52046** 21Ed. 10/14/00 LAST NM 7/03 16/03  
 Add Beacon YB, double cone topmark  
 points downward, Q(6) + L Fl 15s 3M  
 36°42'06.6"N 4°25'42.6"W

(Plan)  
 Add Double solid line with land tint (breakwater)  
 [F4.2] joining 36°42'15.0"N 4°25'47.4"W  
 36°42'13.2"N 4°25'45.6"W  
 36°42'10.8"N 4°25'43.8"W  
 36°42'09.0"N 4°25'43.2"W

Double dashed line (submerged groin) [F6.3]  
 between 36°42'09.0"N 4°25'43.2"W  
 36°42'06.6"N 4°25'42.6"W

Beacon YB, double cone topmark  
 points downward, Q(6) + L Fl 15s 3M  
 36°42'06.6"N 4°25'42.6"W

(38(655)02 Cadiz)

**52066** 3Ed. 1/18/97 LAST NM 14/03 16/03  
 Relocate Anchorage symbol from  
 37°20'56"N 1°40'04"W to 37°20'50"N 1°40'22"W

Add Submarine pipeline [L41.1] between  
 37°21'17"N 1°40'26"W  
 37°20'52"N 1°39'53"W

(44(758)02 Cadiz)

## SECTION I

NM 16/03

<b>52083</b>	2Ed. 11/9/96 LAST NM 1/03	16/03			
	Add Fish haven symbol [K46.1]	40°27'30"N 0°31'18"E			
	(39(681)02 Cadiz)				"Fish haven" area with blue tint [K46.1] bound by existing fish haven and dotted line (limiting danger line) joining
					40°51'10"N 0°46'49"E
					40°51'53"N 0°48'06"E
					40°52'36"N 0°48'31"E
					40°55'50"N 0°51'37"E
					40°56'48"N 0°52'23"E
					40°55'47"N 0°52'46"E
					40°53'32"N 0°50'30"E
					40°51'36"N 0°49'29"E
					40°50'50"N 0°48'34"E
					40°50'29"N 0°47'08"E
					40°50'34"N 0°47'02"E
				(See 46/02-52121)	
				(44(760)02 Cadiz)	
<b>52085</b>	3Ed. 3/2/96 LAST NM 11/03	16/03			
	Delete Fish haven symbol	39°16'50"N 0°13'59"W			
	Fish haven symbol	39°16'38"N 0°13'44"W			
	Fish haven symbol	39°16'20"N 0°13'35"W			
	(See 4/03-52085)				
	Add Fish haven area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	39°17'08"N 0°14'34"W 39°17'08"N 0°13'52"W 39°16'08"N 0°13'05"W 39°16'08"N 0°13'46"W			
	(38(658)02 Cadiz)				
<b>52092</b>	1Ed. 12/11/93 LAST NM 51/02	16/03			
	Add Fish haven symbol [K46.1]	40°27'30.0"N 0°31'18.0"E			
	(39(681)02 Cadiz)				
<b>52120</b>	12Ed. 11/14/87 LAST NM 11/03	16/03			
	Add "Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	41°03.5"N 1°05.2"E 41°03.2"N 1°09.4"E 41°02.7"N 1°09.0"E 41°02.6"N 1°06.2"E			
	"Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	41°01.0"N 0°58.1"E 41°03.2"N 1°03.2"E 41°03.0"N 1°04.1"E 41°01.2"N 1°01.6"E 41°00.8"N 0°59.2"E			
	"Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	40°57.4"N 0°53.3"E 41°00.5"N 0°57.3"E 40°59.4"N 0°57.5"E 40°56.8"N 0°53.2"E			
	"Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	40°51.0"N 0°46.6"E 40°56.8"N 0°52.4"E 40°55.8"N 0°52.8"E 40°50.8"N 0°48.6"E 40°50.5"N 0°47.2"E			
	(44(760)02 Cadiz)				
<b>52121</b>	8Ed. 8/12/95 LAST NM 11/03	16/03			
	Add "Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	41°03'27"N 1°05'10"E 41°03'53"N 1°07'55"E 41°03'11"N 1°09'19"E 41°02'41"N 1°08'58"E 41°02'40"N 1°08'31"E 41°03'00"N 1°07'46"E 41°02'33"N 1°06'07"E			
	"Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	41°01'01"N 0°58'05"E 41°01'44"N 0°59'17"E 41°02'09"N 1°00'46"E 41°03'10"N 1°03'08"E 41°02'57"N 1°04'04"E 41°01'52"N 1°01'31"E 41°01'13"N 1°01'31"E 41°00'45"N 0°59'08"E			
	"Fish haven" area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	40°57'26"N 0°53'14"E 40°58'32"N 0°54'34"E 40°59'05"N 0°56'34"E 40°59'37"N 0°56'32"E 41°00'31"N 0°57'13"E 40°59'21"N 0°57'30"E 40°58'31"N 0°56'38"E 40°56'48"N 0°53'08"E			
	(44(760)02 Cadiz)				
<b>52125</b>	1Ed. 4/28/01 LAST NM 11/03	16/03			
	Add Fish haven area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	41°12'48"N 1°48'23"E 41°12'08"N 1°47'04"E 41°10'38"N 1°45'50"E 41°10'11"N 1°48'54"E 41°10'50"N 1°50'15"E			
	Fish haven area with blue tint [K46.1] bound by dotted line (limiting danger line) joining	41°11'08"N 1°50'49"E 41°12'41"N 1°53'30"E 41°13'42"N 1°53'13"E 41°13'08"N 1°51'43"E 41°12'56"N 1°49'58"E			
	(43(746)02 Cadiz)				
<b>52144</b>	5Ed. 12/25/93 LAST NM 14/03	16/03			
	Add Submarine pipeline [L41.1] between	39°32'56"N 2°36'02"E 39°32'20"N 2°36'23"E			
	Submarine pipeline [L41.1] between	39°32'06"N 2°43'08"E 39°31'49"N 2°43'05"E			
	Submarine pipeline [L41.1] between	39°31'22"N 2°44'14"E 39°31'05"N 2°43'49"E			
	Submarine pipeline [L41.1] between	39°31'05"N 2°44'32"E 39°30'50"N 2°44'11"E			
	(Plan)				
	Add Submarine pipeline [L41.1] between	39°33'09.2"N 2°41'09.5"E 39°32'41.9"N 2°40'44.7"E			
	Submarine pipeline [L41.1] between	39°32'48.6"N 2°41'50.0"E 39°32'40.9"N 2°41'34.3"E			
	(43(747), 45(781, 782)02 Cadiz)				
<b>52170</b>	3Ed. 7/8/95 LAST NM 14/03	16/03			
	Add Wreck [K29]	35°50.0'N 12°48.2'E			
	Wreck [K29]	34°57.0'N 12°32.0'E			
	(18(13, 14)02 Genova)				
<b>52180</b>	14Ed. 7/31/99 LAST NM 15/03	16/03			
	Add Buoy (wavemeter) Y, spherical, "X" topmark, Fl Y 4s	37°32.6'N 12°39.8'E			
	(18(12)02 Genova)				
<b>53061</b>	10Ed. 2/19/94 LAST NM 12/03	16/03			
	Delete Depth 49 meters Wk (PA)	43°16'21.6"N 5°17'02.4"E			
	Depth 53 meters Wk (PD)	43°14'54.3"N 5°16'45.6"E			
	Depth 53 meters	43°16'30.0"N 5°17'09.0"E			
	Add Depth 49 meters Wk [K26]	43°16'29.4"N 5°17'11.4"E			
	(27(34)02 Brest)				
<b>53062</b>	13Ed. 1/22/94 LAST NM 14/03	16/03			
	Delete Depth 49 meters Wk (PA)	43°16'21.6"N 5°17'02.4"E			
	Depth 53 meters Wk (PD)	43°14'54.3"N 5°16'45.6"E			
	Depth 53 meters	43°16'29.5"N 5°17'10.8"E			
	Add Depth 49 meters Wk [K26]	43°16'29.4"N 5°17'11.4"E			
	(27(34)02 Brest)				





<b>62550</b>	(Continued)				
	Submarine pipeline between	26°18'37"N 52°32'46"E			
	(Previously published 10/03)	26°18'54"N 52°32'48"E			
Add	Submarine pipeline [L40.1] with legend "CAUTION NO 1" joining	26°31'54"N 51°56'36"E			
		26°33'51"N 51°51'07"E			
		26°35'43"N 51°45'28"E			
		26°37'34"N 51°39'48"E			
		26°39'21"N 51°34'16"E			
		26°39'27"N 51°34'13"E			
	(Previously published 13/03)				
Change	Legend "BAHRAM OILFIELD (SEE NOTE)" to "BALAL OILFIELD (SEE NOTE)"				
	(NIMA; 3(323)03 Taunton)	26°18'24"N 52°33'24"E			
<b>★62560</b>	4Ed. 3/1/03 NEW EDITION				16/03
Delete	LIMITED DISTRIBUTION note in right lower margin of chart				
	(NIMA)				
<b>63005</b>	18Ed. 2/26/94 LAST NM 31/02				16/03
Add	Legend "ED" to wreck (PA)	14°49.8'N 73°11.2'E			
	(5(130)03 Dehra Dun)				
<b>63062</b>	7Ed. 7/7/90 LAST NM 7/03				16/03
Delete	Light	22°44'30"N 69°42'48"E			
Add	Light Fl(2) 15s 24m 23M	22°43'48"N 69°42'25"E			
	(5(126)03 Dehra Dun)				
<b>63070</b>	3Ed. 10/3/81 LAST NM 29/02				16/03
Add	Position circle "WTR TR (conspic)" [E21]	21°30.0'N 69°49.1'E			
	(5(128)03 Dehra Dun)				
<b>63103</b>	17Ed. 8/14/93 LAST NM 15/03				16/03
Add	Dashed-line circle with legend "Turning Basin", radius 260 meters, centered	18°56'40.2"N 72°56'01.7"E			
	Dashed-line circle with legend "Turning Basin", radius 180 meters, centered	18°56'33.1"N 72°56'12.6"E			
	(5(129)03 Dehra Dun)				
<b>63110</b>	4Ed. 6/15/85 LAST NM 40/02				16/03
Add	Legend "ED" to wreck (PA)	14°49.8'N 73°11.2'E			
	(5(130)03 Dehra Dun)				
<b>63210</b>	3Ed. 11/23/85 LAST NM 52/02				16/03
Add	Anchorage symbol (large vessels) [N10]	8°51.5'N 76°34.4'E			
	(4(106)03 Dehra Dun)				
<b>63291</b>	9Ed. 7/3/99 LAST NM 33/02				16/03
	(Plan)				
Add	Legend "Dredged to 16.5m (2002)"	17°41'27.0"N 83°17'43.8"E			
	(3(82)03 Dehra Dun)				
<b>71005</b>	1Ed. 1/25/92 LAST NM 13/03				16/03
Add	Light flare symbol [P1]	2°19.9'N 102°02.7'E			
	(5/03 Malaysia)				
<b>71241</b>	10Ed. 9/12/98 LAST NM 12/03				16/03
Add	Dangerous wreck [K28]	1°00'30"N 103°29'27"E			
	(39(309)02 Jakarta)				
<b>71253</b>	10Ed. 12/27/97 LAST NM 14/03				16/03
Change	Legend "7.2m" to "6.4m"	1°18'16.5"N 103°43'36.0"E			
	Legend "7.2m" to "7.9m"	1°18'09.8"N 103°43'38.5"E			
	Legend "13.4m" to "12.9m"	1°16'49.0"N 103°44'09.0"E			
	(7(72, 75)01 Singapore)				
<b>71257</b>	2Ed. 6/29/96 LAST NM 13/03				16/03
Add	Wreck [K29] marked by buoy BRB, pillar, double ball topmark, Fl(2) 5s	1°15'00"N 103°25'15"E			
	Dangerous wreck [K28]	1°00'30"N 103°29'27"E			
	(6/03 Malaysia; 39(309)02 Jakarta)				
<b>71261</b>	8Ed. 2/22/86 LAST NM 2/03				16/03
Add	Light L Fl 8s 16m 13M	1°35'46"N 102°00'16"E			
	(33(259)02 Jakarta)				
<b>71265</b>	3Ed. 6/8/02 LAST NM 15/03				16/03
Add	Wreck [K29] marked by buoy BRB, pillar, double ball topmark, Fl(2) 5s	1°15'00"N 103°25'15"E			
	Dangerous wreck [K28]	1°00'30"N 103°29'27"E			
	(6/03 Malaysia; 39(309)02 Jakarta)				
<b>71275</b>	3Ed. 5/1/99 LAST NM 6/03				16/03
Add	Light L Fl 8s 16m 13M	1°35'46"N 102°00'16"E			
	Beacon Y, Fl Y 5s 11m 7M	2°19'56"N 102°02'41"E			
	Wreck [K29] marked by buoy BRB, pillar, double ball topmark, Fl(2) 5s	1°15'00"N 103°25'15"E			
	(5, 6/03 Malaysia; 33(259)02 Jakarta)				
<b>73640</b>	5Ed. 8/16/97 LAST NM 36/02				16/03
	(Panel B)				
Delete	Buoy	8°13.8'S 148°16.1'E			
	(3(98)03 Wollongong)				
<b>74005</b>	2Ed. 4/8/95 LAST NM 9/03				16/03
Substitute	Depth 987 meters for 936 meters	10°21.0'S 144°34.0'E			
Add	Dangerous submerged rock [K13]	10°21.0'S 144°25.5'E			
	Rock awash [K12]	10°19.0'S 144°30.2'E			
	(3(96)03 Wollongong)				
<b>74190</b>	7Ed. 6/14/97 LAST NM 1/03				16/03
Delete	Buoy	25°05.2'S 152°34.3'E			
	(4(121)03 Wollongong)				
<b>74253</b>	6Ed. 5/10/97 LAST NM 9/03				16/03
Relocate	Pilot station symbol from 16°46'55"S 145°52'03"E to (See 9/03-74253)	16°47'00"S 145°53'00"E			
	(4(122)03 Wollongong)				
<b>74265</b>	2Ed. 7/12/97 LAST NM 9/03				16/03
Relocate	Pilot station symbol from 16°47.0'S 145°52.0'E to (See 9/03-74265)	16°47.0'S 145°53.0'E			
	(4(122)03 Wollongong)				
<b>74285</b>	2Ed. 8/23/97 LAST NM 9/03				16/03
Delete	Depth 8.7 meters	10°20.9'S 143°51.8'E			
Add	Depth 1.3 meters, blue tint and enclosing depth contour (5-meter) centered	10°22.1'S 143°53.7'E			
	Depth 0.8 meter, blue tint and enclosing depth contour (5-meter) centered	10°20.5'S 143°54.6'E			
	Depth 2.5 meters, blue tint and enclosing depth contour (5-meter) centered	10°19.5'S 143°54.6'E			
	Depth 6.7 meters, blue tint and enclosing depth contour (10-meter) centered	10°21.1'S 143°52.0'E			
	Depth 5.9 meters, blue tint and enclosing depth contour (10-meter) centered	10°20.3'S 143°50.7'E			
	Depth 35 meters	10°21.7'S 143°38.3'E			
	Depth 31 meters	10°20.6'S 143°35.2'E			
	Depth 14.6 meters enclosed by depth contour (20-meter)	10°21.6'S 143°28.7'E			
	Depth 14.1 meters enclosed by depth contour (20-meter)	10°20.9'S 143°20.4'E			
	(1(41)03 Wollongong)				
<b>74290</b>	11Ed. 9/6/97 LAST NM 10/03				16/03
Delete	Depth 8.7 meters	10°20.9'S 143°51.8'E			

(continued on next page)



**94127** 2Ed. 5/25/96 LAST NM 13/03 16/03  
 (Panel B)  
 Delete Stranded wreck 25°08'03.6"N 121°21'05.4"E  
 (See 13/03-94127)  
 (18/03 Tso-ying)

**94160** 7Ed. 3/23/96 LAST NM 12/03 16/03  
 Add Dangerous wreck [K28] (PA) 26°04.5'N 119°47.6'E  
 (8(124)03 Tianjin)

**94164** 2Ed. 3/23/96 LAST NM 12/03 16/03  
 Add Dangerous wreck [K28] (PA) 26°04'27"N 119°47'37"E  
 (8(124)03 Tianjin)

**94363** 4Ed. 11/21/92 LAST NM 43/02 16/03  
 Add Chartlet, depicting changes in hydrography and  
 aids to navigation, from Subsection I-2  
 38°54'00"N 118°01'00"E  
 (Plan)  
 Substitute Beacon "1" R, can topmark, Fl(2) R 6s for  
 buoy "1" 38°56'51.6"N 117°55'31.1"E  
 Beacon "2" G, cone topmark, Fl(3) G 10s for  
 buoy "2" 38°57'01.3"N 117°55'34.6"E  
 (34(630, 631)02 Tianjin)

**95138** 8Ed. 2/5/94 LAST NM 8/03 16/03  
 Delete Buoy "A" 34°43'57.0"N 127°45'14.0"E  
 Buoy "B" 34°43'57.0"N 127°45'26.0"E  
 (34(405)00 Inchon)

**95143** 11Ed. 5/15/99 LAST NM 13/03 16/03  
 Add Dashed-line circle "Marine farm" 34°49'28"N 128°16'00"E  
 Dashed-line circle "Marine farm" 34°49'47"N 128°15'27"E  
 Dashed-line circle "Marine farm" 34°49'42"N 128°15'37"E  
 (32(309)00 Inchon)

**95144** 9Ed. 5/15/99 LAST NM 13/03 16/03  
 Add Dashed-line circle "Marine farm" 34°49'28"N 128°16'00"E  
 Dashed-line circle "Marine farm" 34°49'47"N 128°15'27"E  
 Dashed-line circle "Marine farm" 34°49'42"N 128°15'37"E  
 Dashed-line circle "Marine farm" 34°55'18"N 128°32'30"E  
 Legend "Numerous Marine farms" 34°58'24"N 128°30'24"E  
 (32(309), 33(318), 37(353)00 Inchon)

**95146** 14Ed. 5/14/94 LAST NM 9/03 16/03  
 Add Legend "Numerous Marine farms" 34°58'24"N 128°30'24"E  
 "Marine farm" area bound by dashed line  
 joining 34°55'34"N 128°32'24"E  
 34°55'31"N 128°32'29"E  
 34°55'23"N 128°32'23"E  
 34°55'25"N 128°32'18"E  
 (33(318), 37(353)00 Inchon)

**95169** 2Ed. 2/26/94 LAST NM 11/03 16/03  
 Add Land tint to area (wharf) [F13] bound by shore  
 and solid line joining 38°11'34.9"N 128°34'56.9"E  
 38°11'34.9"N 128°35'01.4"E  
 38°11'31.8"N 128°35'01.4"E  
 38°11'31.8"N 128°35'30.6"E  
 38°11'27.0"N 128°35'30.7"E  
 Land tint to area (wharf) [F13] bound by shore  
 and solid line joining 38°11'57.1"N 128°35'36.1"E  
 38°11'57.1"N 128°35'36.7"E  
 38°11'59.8"N 128°35'36.1"E  
 38°11'59.8"N 128°35'36.7"E  
 Position circle "Tr" [E20] 38°11'30.0"N 128°35'10.0"E  
 Slipway symbol [F23] 38°11'28.0"N 128°35'34.0"E  
 Position circle "Ferry terminal" 38°11'40.0"N 128°34'57.0"E  
 Position circle "Sokcho Maritime Police  
 Office" 38°12'43.0"N 128°34'58.0"E  
 (38(455, 456), 39(491)00 Inchon)

**95250** 4Ed. 7/12/97 LAST NM 6/03 16/03  
 Add Fish haven symbol [K46.1] 40°03.5'N 139°51.5'E  
 (9(301)03 Tokyo)

**95258** 3Ed. 11/15/97 LAST NM 6/03 16/03  
 Delete Dredged "4.3 m(1972)" area in vicinity  
 38°54'49.5"N 139°49'44.5"E  
 Dashed line (caisson area) joining  
 38°54'51.7"N 139°49'40.5"E  
 38°54'47.8"N 139°49'44.1"E  
 38°54'46.5"N 139°49'42.0"E  
 Dredged "4m" area in vicinity 38°54'45.8"N 139°49'50.0"E  
 Dredged "4m" area in vicinity 38°54'41.5"N 139°49'51.0"E  
 Foul ground symbol 38°54'48.8"N 139°49'44.5"E  
 Depth 4.2 meters, blue tint and enclosing  
 depth contour centered 38°54'52.0"N 139°49'45.0"E  
 Depth 4 meters, blue tint and enclosing  
 depth contour centered 38°54'49.0"N 139°49'47.8"E  
 Depth 1.5 meters and enclosing depth contour  
 centered 38°54'45.8"N 139°49'46.2"E  
 Depth 2.5 meters 38°54'42.4"N 139°49'48.5"E  
 Substitute Depth 4.4 meters for 3.6 meters  
 38°54'38.8"N 139°49'49.5"E  
 Add Depth 4.4 meters 38°54'53.0"N 139°49'44.5"E  
 Depth 7.2 meters 38°54'52.2"N 139°49'42.0"E  
 Depth 4.4 meters 38°54'51.5"N 139°49'44.5"E  
 Depth 7.6 meters 38°54'51.2"N 139°49'40.2"E  
 Depth 3.3 meters 38°54'50.4"N 139°49'46.7"E  
 Depth 6.1 meters 38°54'49.5"N 139°49'42.8"E  
 Depth 5.8 meters 38°54'48.8"N 139°49'47.0"E  
 Depth 4.4 meters 38°54'48.3"N 139°49'48.8"E  
 Depth 5.8 meters 38°54'46.3"N 139°49'46.0"E  
 Depth 5.5 meters 38°54'45.4"N 139°49'43.9"E  
 Depth 5.5 meters 38°54'44.5"N 139°49'48.0"E  
 Depth 4.1 meters 38°54'44.0"N 139°49'50.2"E  
 Depth 4.5 meters 38°54'42.8"N 139°49'47.8"E  
 Depth 2.9 meters 38°54'37.2"N 139°49'46.9"E  
 Depth 2.8 meters 38°54'37.0"N 139°49'49.1"E  
 (3(71)03 Tokyo)

**95261** 7Ed. 8/17/96 LAST NM 9/03 16/03  
 Add Fish haven symbol [K46.1] 39°31'17"N 140°00'04"E  
 (10(328)03 Tokyo)

**95342** 16Ed. 2/3/96 LAST NM 13/03 16/03  
 Delete Buoy "15" 33°54'37.0"N 130°49'10.0"E  
 (Continuation)  
 Delete Buoy "15" 33°54'37.0"N 130°49'10.0"E  
 Substitute Depth 7 meters for 8.5 meters 33°54'11.7"N 130°49'06.0"E  
 Add Depth contour (5-meter) between  
 33°54'25.4"N 130°49'10.2"E  
 33°54'19.6"N 130°49'08.6"E  
 and delete blue tint and enclosing depth  
 contour (5-meter) seaward of above line  
 Depth 9.1 meters 33°54'21.1"N 130°49'08.5"E  
 Depth 9 meters 33°54'24.5"N 130°49'09.5"E  
 (10(325)03 Tokyo)

**97080** 5Ed. 10/5/91 LAST NM 9/02 16/03  
 Add Wreck [K29] 36°58'15"N 141°11'16"E  
 (9(302)03 Tokyo)

**97082** 5Ed. 12/20/97 LAST NM 46/02 16/03  
 Add Chartlet, depicting changes in hydrography and  
 topography, from Subsection I-2  
 38°19'45.0"N 141°03'00.0"E  
 (Jpn CH W64A)

## SECTION I

NM 16/03

<b>97100</b>	4Ed. 8/8/98	LAST NM 47/02	16/03
Add	Submarine cable [L30.1] joining		36°45'18"N 140°48'54"E 36°43'24"N 140°51'48"E 36°38'42"N 140°56'30"E 36°37'30"N 140°58'54"E 36°30'48"N 141°06'30"E 36°30'06"N 141°07'54"E 36°30'06"N 141°09'18"E 36°31'12"N 141°13'54"E 36°32'12"N 141°16'42"E 36°32'12"N 141°22'00"E 36°31'54"N 141°23'18"E 36°31'24"N 141°29'06"E
	Wreck [K29]		36°58'26"N 141°11'04"E
	(3(79), 9(302)03 Tokyo)		
<b>97120</b>	6Ed. 8/9/97	LAST NM 14/03	16/03
Add	Submarine cable [L30.1] joining		34°53.6'N 140°08.2'E 34°54.1'N 140°08.0'E 34°54.8'N 140°07.0'E 34°56.7'N 140°03.1'E 34°56.9'N 140°01.8'E 34°57.3'N 140°01.3'E
	(3(79)03 Tokyo)		
<b>97140</b>	17Ed. 6/28/97	LAST NM 14/03	16/03
Add	Submarine cable [L30.1] joining		34°53.6'N 140°08.2'E 34°54.1'N 140°08.0'E 34°54.8'N 140°07.0'E 34°56.7'N 140°03.1'E 34°56.9'N 140°01.8'E 34°57.3'N 140°01.3'E
	(3(79)03 Tokyo)		
<b>97149</b>	20Ed. 11/29/97	LAST NM 1/03	16/03
Delete	Dashed line between		35°28'09.2"N 139°39'17.8"E 35°28'06.0"N 139°39'22.0"E
	Depth 12 meters	35°28'16.9"N 139°39'21.7"E	
	Depth 7 meters	35°28'13.3"N 139°39'21.5"E	
	Depth 5.4 meters	35°28'12.4"N 139°39'24.0"E	
	Depth 6.1 meters	35°28'11.0"N 139°39'25.5"E	
	Depth 13.2 meters	35°28'09.0"N 139°39'31.1"E	
	Depth 3.2 meters	35°28'08.0"N 139°39'26.0"E	
	Depth 5.1 meters	35°28'06.5"N 139°39'29.6"E	
	Bottom characteristic "R"	35°28'08.6"N 139°39'21.6"E	
Substitute	Depth 8.1 meters for 6.8 meters		35°28'09.9"N 139°39'28.0"E
	Depth 7.8 meters for 7.1 meters		35°28'08.0"N 139°39'30.0"E
Add	Dashed line joining		35°28'06.0"N 139°39'22.0"E 35°28'05.9"N 139°39'18.0"E 35°28'07.3"N 139°39'15.8"E
	Depth 11.3 meters	35°28'15.5"N 139°39'22.8"E	
	Depth 11.4 meters	35°28'13.5"N 139°39'26.0"E	
	Depth 5.3 meters	35°28'12.0"N 139°39'21.4"E	
	Depth 7.2 meters	35°28'11.6"N 139°39'24.5"E	
	Depth 5.3 meters	35°28'09.2"N 139°39'18.0"E	
	Depth 5.6 meters	35°28'08.8"N 139°39'23.0"E	
	Depth 7.2 meters	35°28'08.2"N 139°39'25.3"E	
	Depth 11.9 meters	35°28'08.1"N 139°39'31.2"E	
	Depth 7 meters	35°28'07.5"N 139°39'23.5"E	
	Depth 1.6 meters	35°28'07.1"N 139°39'18.0"E	
	Depth 5.6 meters	35°28'07.0"N 139°39'21.0"E	
	Depth 7 meters	35°28'07.0"N 139°39'26.0"E	
	Depth 3.7 meters	35°28'06.6"N 139°39'23.5"E	
	Depth 0.8 meter	35°28'06.2"N 139°39'21.0"E	
	Depth 6.1 meters	35°28'06.2"N 139°39'28.7"E	
	Depth 4.4 meters	35°28'06.0"N 139°39'27.5"E	
	(3(73)03 Tokyo)		
<b>97151</b>	16Ed. 7/5/97	LAST NM 14/03	16/03
Substitute	Beacon "5" G, can topmark, Fl G 3s 9m 4M for buoy "5"		35°33'18.1"N 139°59'32.4"E
	Beacon "6" R, cone topmark, Fl R 3s 9m 4M for buoy "6"		35°33'08.3"N 139°59'39.4"E
	Beacon "7" G, can topmark, Fl G 3s 9m 4M for buoy "7"		35°33'51.1"N 140°00'38.0"E
	Beacon "8" R, cone topmark, Fl R 3s 9m 4M for buoy "8"		35°33'41.1"N 140°00'45.0"E
	(10(331)03 Tokyo)		
<b>97153</b>	7Ed. 3/31/84	LAST NM 31/02	16/03
Delete	Buoy "(No 5)"		35°33'07.0"N 139°59'45.0"E
	Buoy "(No 6)"		35°32'56.8"N 139°59'52.0"E
	Buoy "(No 7)"		35°33'39.0"N 140°00'51.5"E
	Buoy "(No 8)"		35°33'30.0"N 140°00'58.0"E
Add	Beacon "(No 5)" G, can topmark, Fl G 3s 9m 4M		35°33'06.4"N 139°59'46.5"E
	Beacon "(No 6)" R, cone topmark, Fl R 3s 9m 4M		35°32'57.0"N 139°59'54.5"E
	Beacon "(No 7)" G, can topmark, Fl G 3s 9m 4M		35°33'40.8"N 140°00'52.1"E
	Beacon "(No 8)" R, cone topmark, Fl R 3s 9m 4M		35°33'30.8"N 140°01'00.1"E
	(10(331)03 Tokyo)		
<b>97159</b>	6Ed. 8/3/91	LAST NM 14/03	16/03
Change	Visibility (range) of light to 10M		35°08'39"N 138°41'24"E
	Visibility (range) of light to 10M		35°08'46"N 138°41'18"E
	(10(323)03 Tokyo)		
<b>97164</b>	1Ed. 5/18/91	LAST NM 14/03	16/03
Change	Visibility (range) of light to 10M		35°08'45.8"N 138°41'18.0"E
	Visibility (range) of light to 10M		35°08'39.1"N 138°41'23.9"E
	(10(323)03 Tokyo)		
<b>97165</b>	1Ed. 9/14/91	LAST NM 7/03	16/03
Delete	(Plan A) Light		35°08'45.8"N 138°41'18.0"E
	Dashed line between		35°08'45.8"N 138°41'18.0"E 35°08'44.7"N 138°41'19.0"E
Change	Visibility (range) of light to 10M		35°08'39.1"N 138°41'23.9"E
Add	Range light, rear FG 27m 10M		35°08'44.7"N 138°41'19.0"E
	(10(323)03 Tokyo)		
<b>97183</b>	9Ed. 3/21/98	LAST NM 14/03	16/03
Add	Chartlet, depicting changes in hydrography and topography, from Subsection I-2		34°51'50"N 136°49'12"E
	(47(1608)02 Tokyo)		
<b>97200</b>	9Ed. 8/26/95	LAST NM 8/03	16/03
Delete	(Plan) Dashed line in vicinity		33°52'12.0"N 135°08'26.0"E
Add	Dashed line (harbor limit) between		33°50'44.0"N 135°09'45.0"E 33°50'34.6"N 135°09'14.5"E
	Dashed line (harbor limit) joining		33°50'34.6"N 135°08'26.0"E 33°52'18.9"N 135°07'49.3"E 33°52'59.0"N 135°08'42.0"E
	Double solid line with land tint (breakwater extension) between		33°51'47.8"N 135°08'35.4"E 33°51'43.8"N 135°08'40.0"E
	(47(1878)99, 3(80)03 Tokyo; Jpn CH W77)		
<b>97223</b>	3Ed. 11/7/98	LAST NM 48/02	16/03
Delete	Buoy and legend "Y Lt"		34°29'48.0"N 135°22'11.0"E
Add	Double dashed line with land tint (bridge) and legend "Under constr" joining		34°28'02.8"N 135°21'31.6"E 34°28'04.0"N 135°21'29.5"E 34°28'07.0"N 135°21'24.5"E 34°28'08.7"N 135°21'22.2"E
	(See 28/00-97223)		
	(9(306), 10(336)03 Tokyo)		
<b>97233</b>	11Ed. 11/27/93	LAST NM 15/03	16/03
Add	Fish haven symbol [K46.1]		34°27'29"N 134°05'40"E
	Fish haven symbol [K46.1]		34°24'15"N 133°49'11"E
	Dangerous wreck [K28]		34°09'34"N 133°23'00"E
	(9(307, 308, 320)03 Tokyo)		

**97234** 17Ed. 12/26/98 LAST NM 9/03 16/03  
 Add Fish haven symbol [K46.1] 34°27'40.0"N 134°05'30.0"E  
 (9(307)03 Tokyo)

**97236** 20Ed. 10/17/98 LAST NM 9/03 16/03  
 Add Fish haven symbol [K46.1] 34°24'26"N 133°49'01"E  
 (9(308)03 Tokyo)

**97239** 10Ed. 2/28/98 LAST NM 9/03 16/03  
 Add Dangerous wreck [K28] 34°09'45.1"N 133°22'52.2"E  
 (9(320)03 Tokyo)

**97340** 8Ed. 4/5/97 LAST NM 52/02 16/03  
 Change Light to Fl G 4s 17m 7M 31°23.8'N 131°20.3'E  
 (8(274)03 Tokyo)

**97341** 9Ed. 9/27/97 LAST NM 34/02 16/03  
 Delete Light 31°23'49"N 131°20'18"E  
 Add Solid line (breakwater) [F4.1] between  
 31°23'49"N 131°20'18"E  
 31°23'50"N 131°20'21"E  
 Light Fl G 4s 17m 7M 31°23'50"N 131°20'21"E  
 (8(274)03 Tokyo)

**97380** 7Ed. 8/23/97 LAST NM 8/03 16/03  
 Change Visibility (range) of beacon to 8M 32°47.1'N 129°45.2'E  
 (3(90)03 Tokyo)

**97390** 5Ed. 8/9/97 LAST NM 12/03 16/03  
 Change Visibility (range) of beacon to 8M 32°47'04"N 129°45'12"E  
 (3(90)03 Tokyo)

**97391** 26Ed. 8/16/97 LAST NM 12/03 16/03  
 Add Double solid line with land tint (breakwater  
 extension) between 32°42'59.6"N 129°49'41.5"E  
 32°42'58.7"N 129°49'40.0"E  
 Position circle "G Lt" 32°42'59.6"N 129°49'41.5"E  
 (3(84)03 Tokyo)

**97396** 14Ed. 8/30/97 LAST NM 2/03 16/03  
 Change Visibility (range) of beacon to 8M 32°47'04"N 129°45'12"E  
 (3(90)03 Tokyo)

**97397** 7Ed. 8/29/92 LAST NM 49/02 16/03  
 Substitute Depth 10.7 meters for 10.1 meters 32°56'27"N 129°37'50"E  
 (See 3/97-97397)  
 (9(315)03 Tokyo)

**97440** 8Ed. 6/21/97 LAST NM 1/03 16/03  
 Change Visibility (range) of light to 7M 31°23.8'N 131°20.3'E  
 (8(274)03 Tokyo)

**97521** 6Ed. 3/14/98 LAST NM 42/02 16/03  
 (Plan D)  
 Change Light to Oc G 8s 10m 9M 27°05'37"N 142°11'44"E  
 (10(334)03 Tokyo)

**97564** 3Ed. 8/10/96 LAST NM 44/96 16/03  
 Change Visibility (range) of light to 9M 27°05'37.0"N 142°11'44.0"E  
 (10(334)03 Tokyo)

**800744** 1Ed. 9/24/88 LAST NM N13/03 N16/03  
 Delete Beacon "10" 21°28'22"N 157°49'44"W  
 Change Designation of beacon "7A" to "9" 21°29'32"N 157°49'49"W  
 Designation of beacon "9" to "11" 21°29'18"N 157°49'48"W  
 Designation of beacon "8" to "12" 21°29'16"N 157°49'56"W  
 Designation of beacon "11" to "15" 21°28'13"N 157°49'34"W  
 Designation of buoy "11A" to "17" 21°27'46"N 157°49'24"W

Designation of buoy "12A" to "20" 21°27'22"N 157°48'43"W

Designation of light "12" to "18" 21°27'40"N 157°49'19"W  
 Designation of light "13" to "21" 21°27'13"N 157°48'13"W  
 Designation of light "16" to "22" 21°26'43"N 157°47'38"W  
 Designation of light "19" to "25" 21°26'37"N 157°47'20"W  
 Designation of buoy "20" to "26" 21°26'14"N 157°47'12"W

Add Light "14" Fl R 4s 15ft 4M 21°28'23"N 157°49'44"W  
 (8/03 CG14)

**809055** 7Ed. 10/22/83 LAST NM N33/01 N16/03  
 Add Buoy Fl Y 4s (PA) with legend "Wave buoy" 33°13'18"N 117°26'00"W  
 (9/03 CG11)

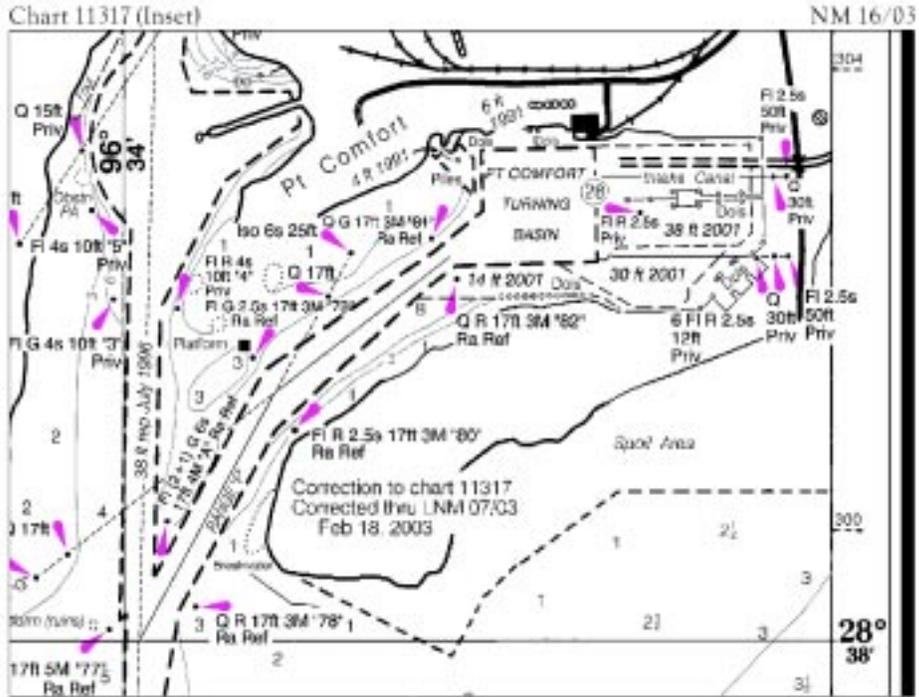
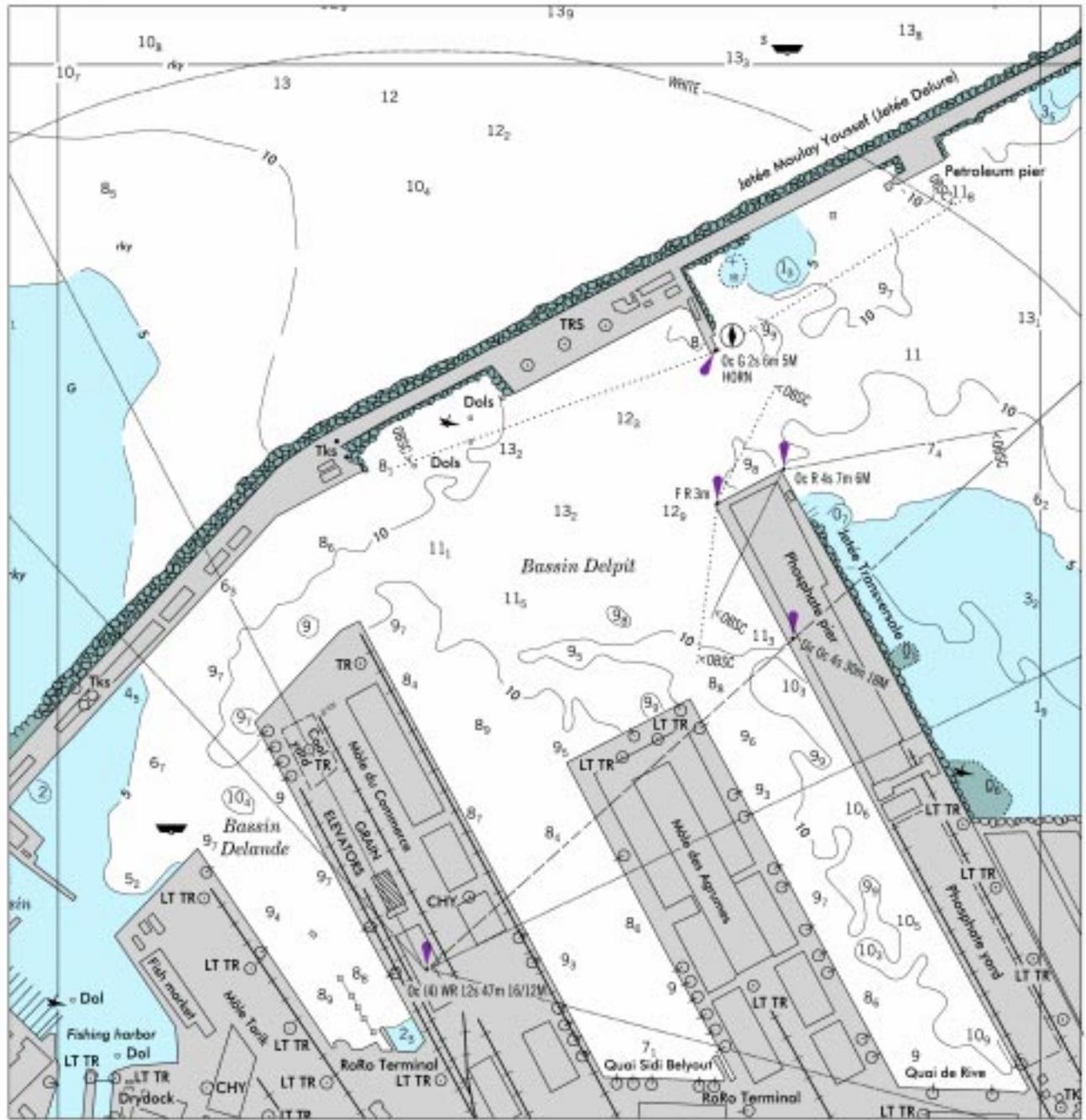
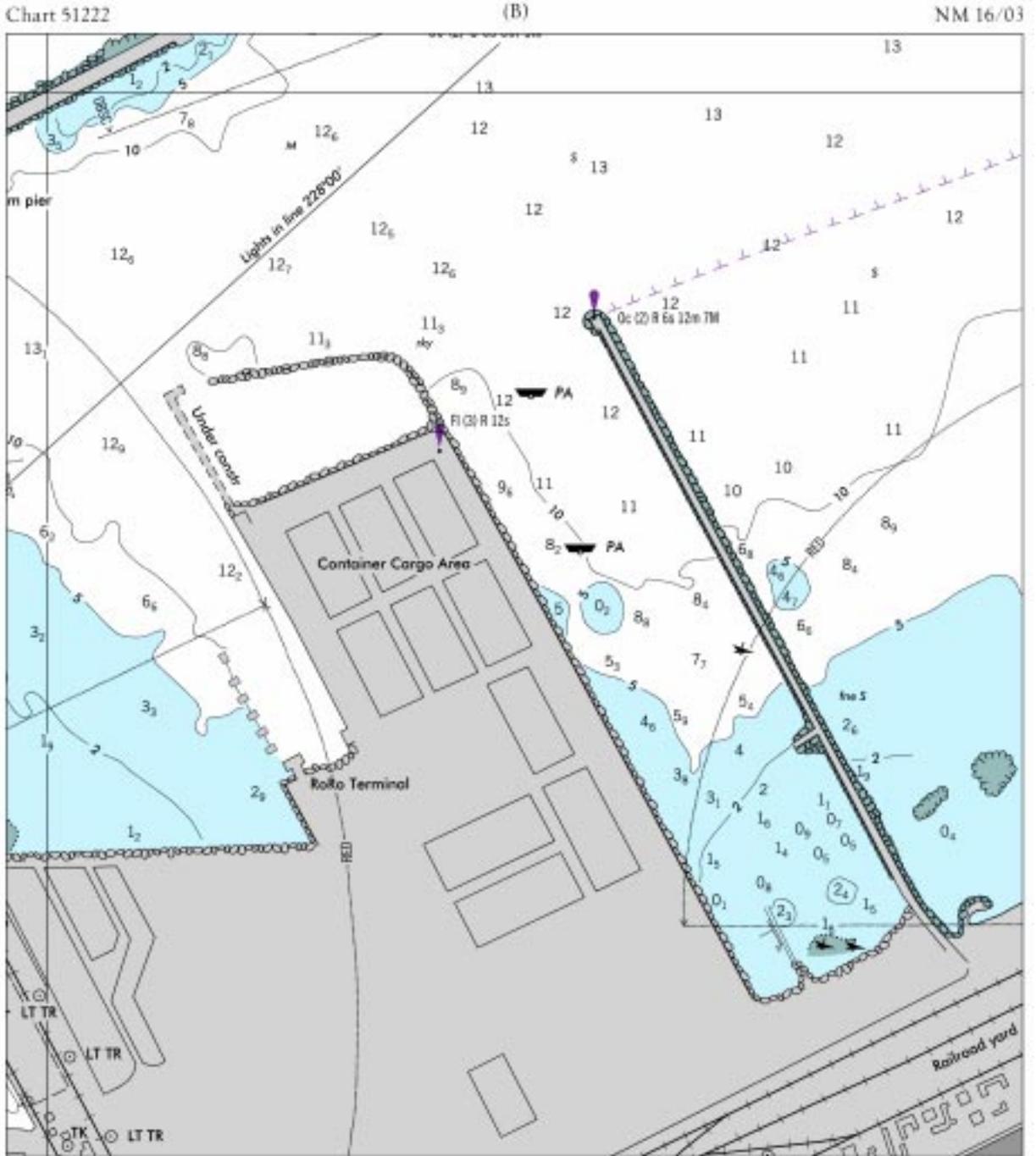


Chart 51222

(A)

NM 16/03





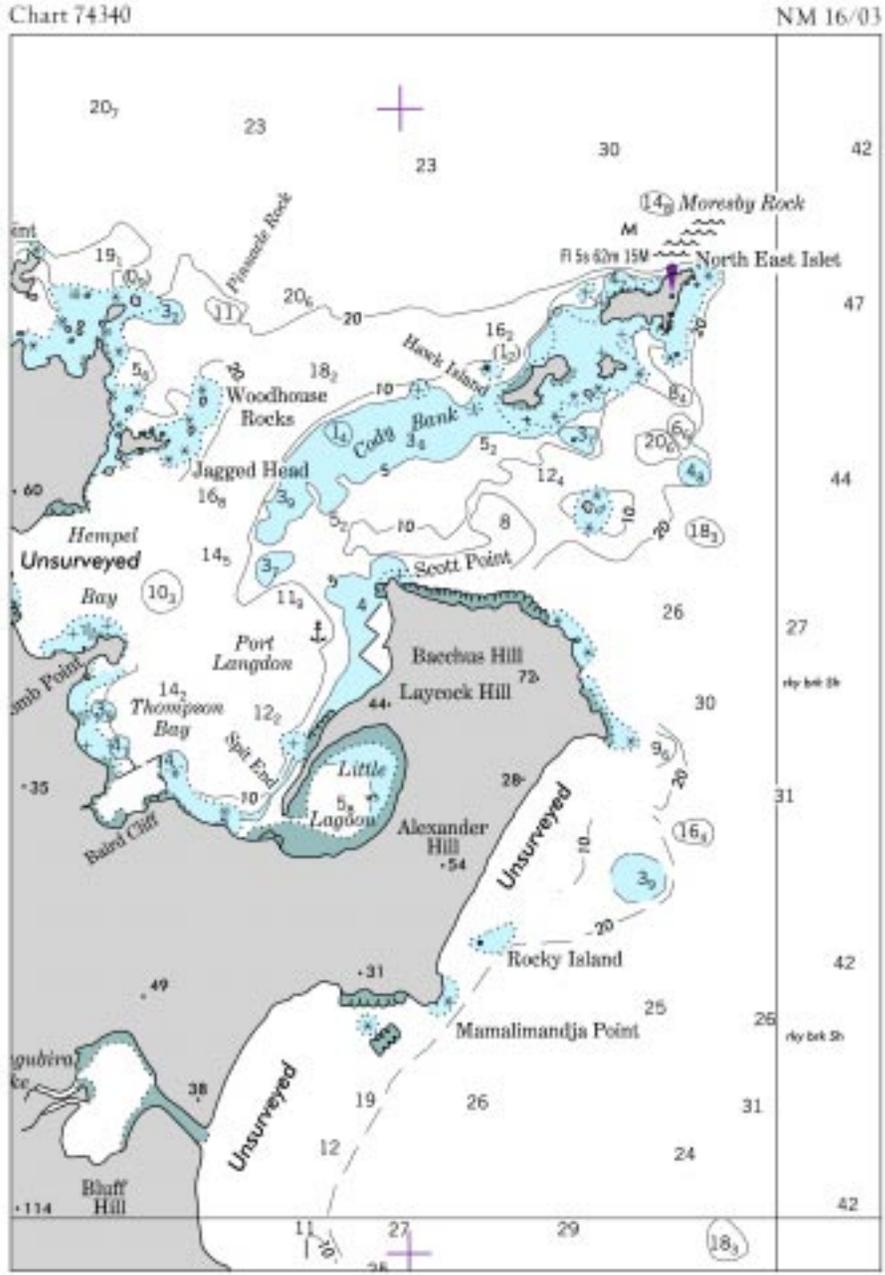


Chart 75262 (Plan A)

(A)

NM 16/03

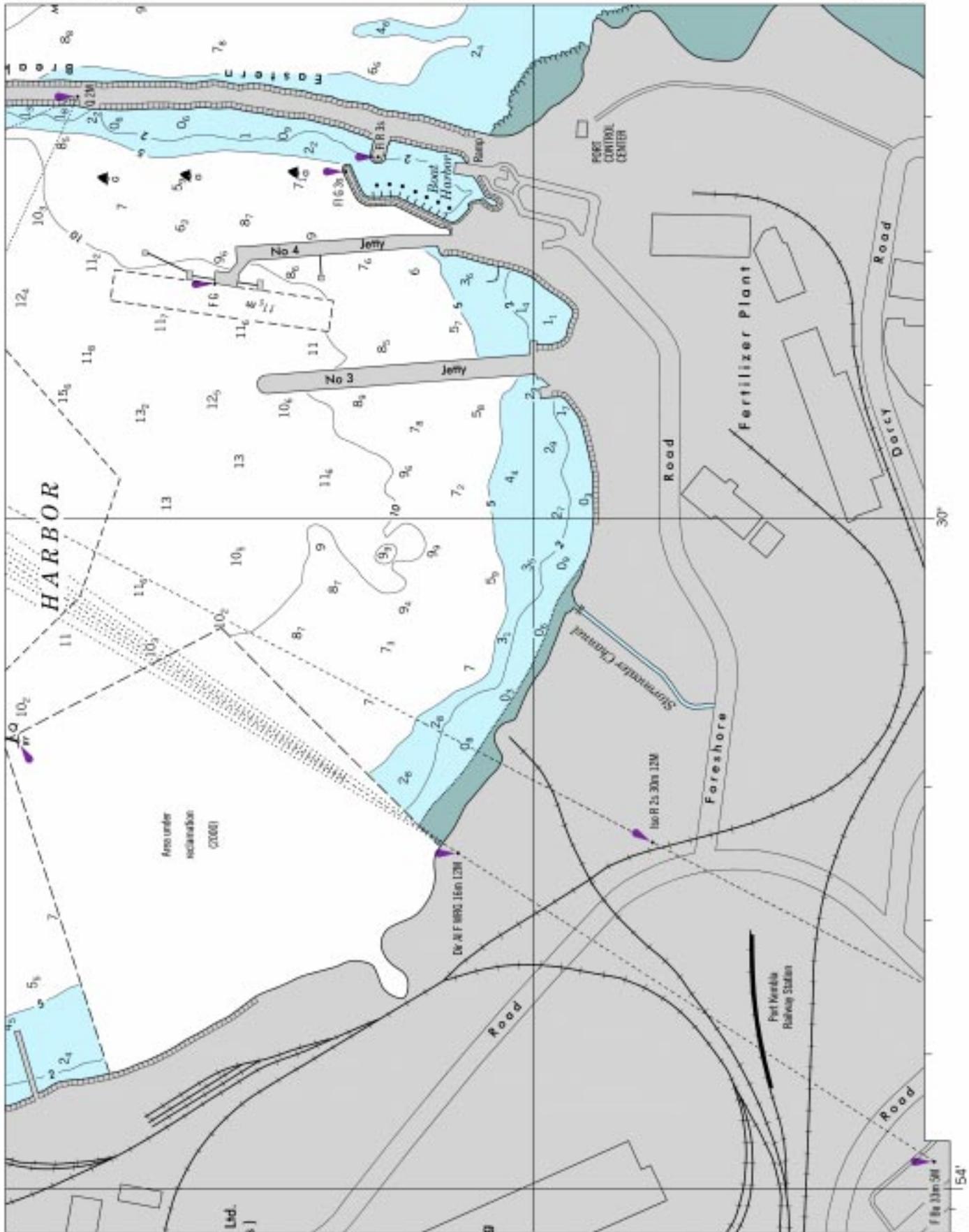


Chart 75262 (Plan A)

(B)

NM 16/03

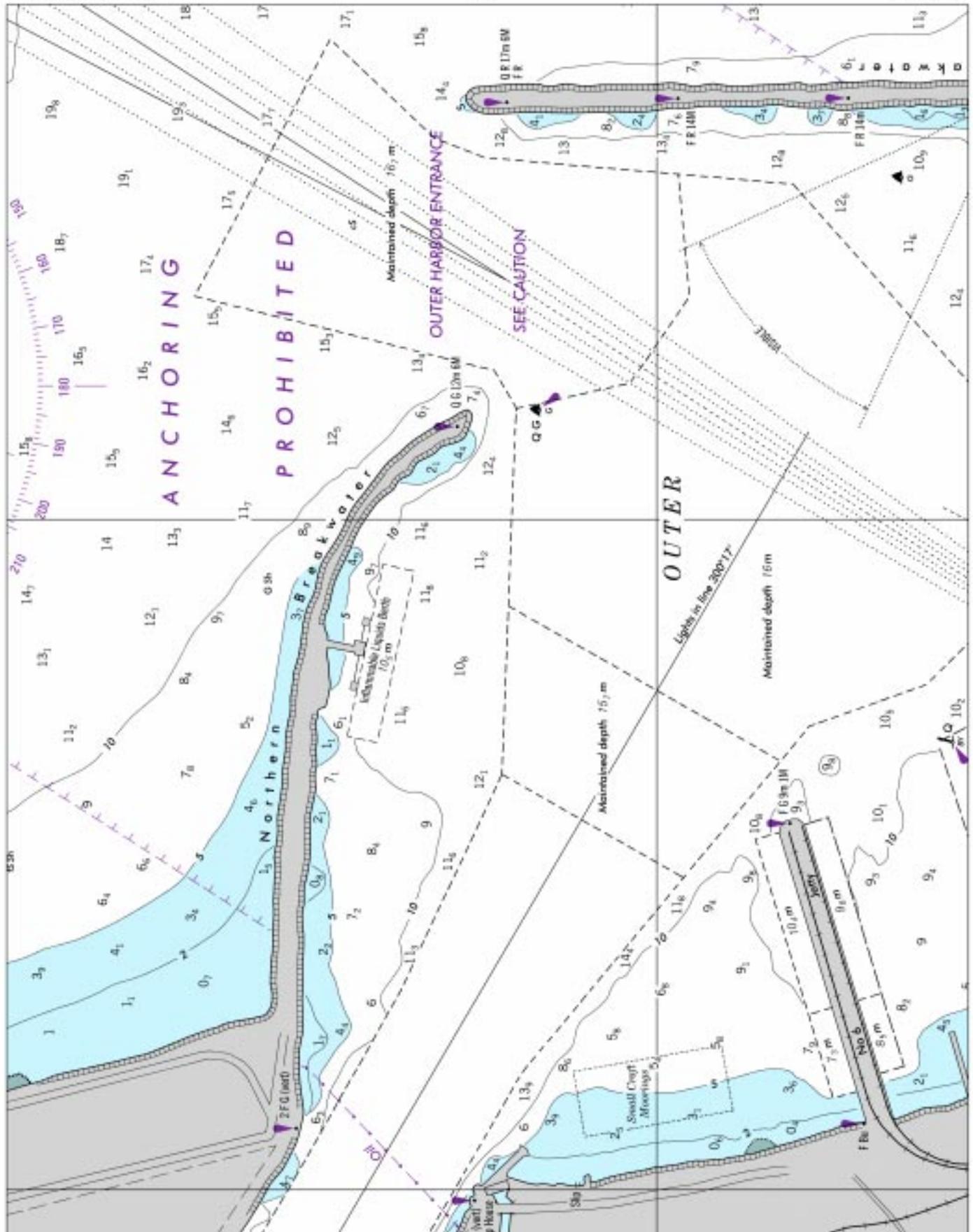


Chart 75262 (Plan A)

(C)

NM 16/03

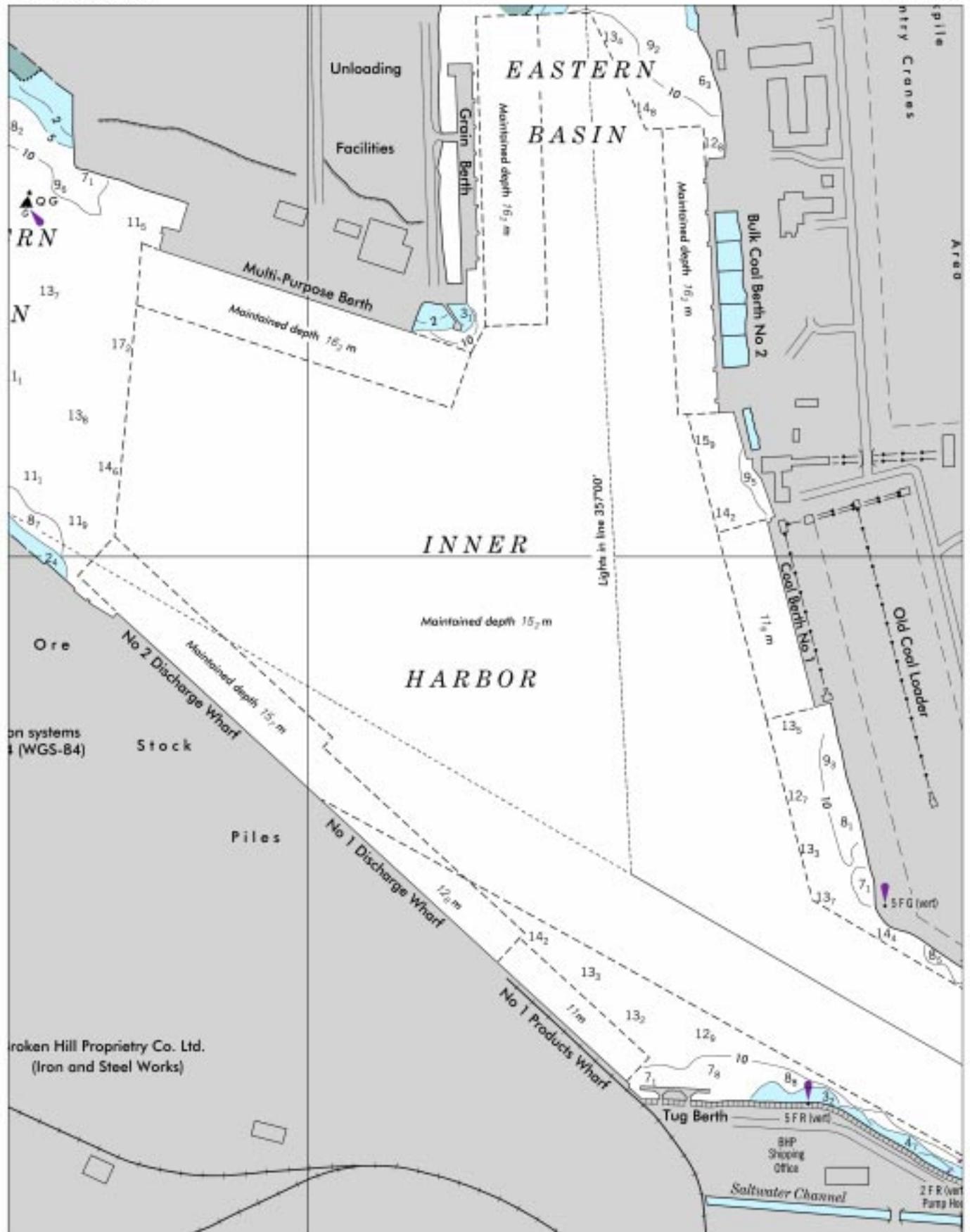
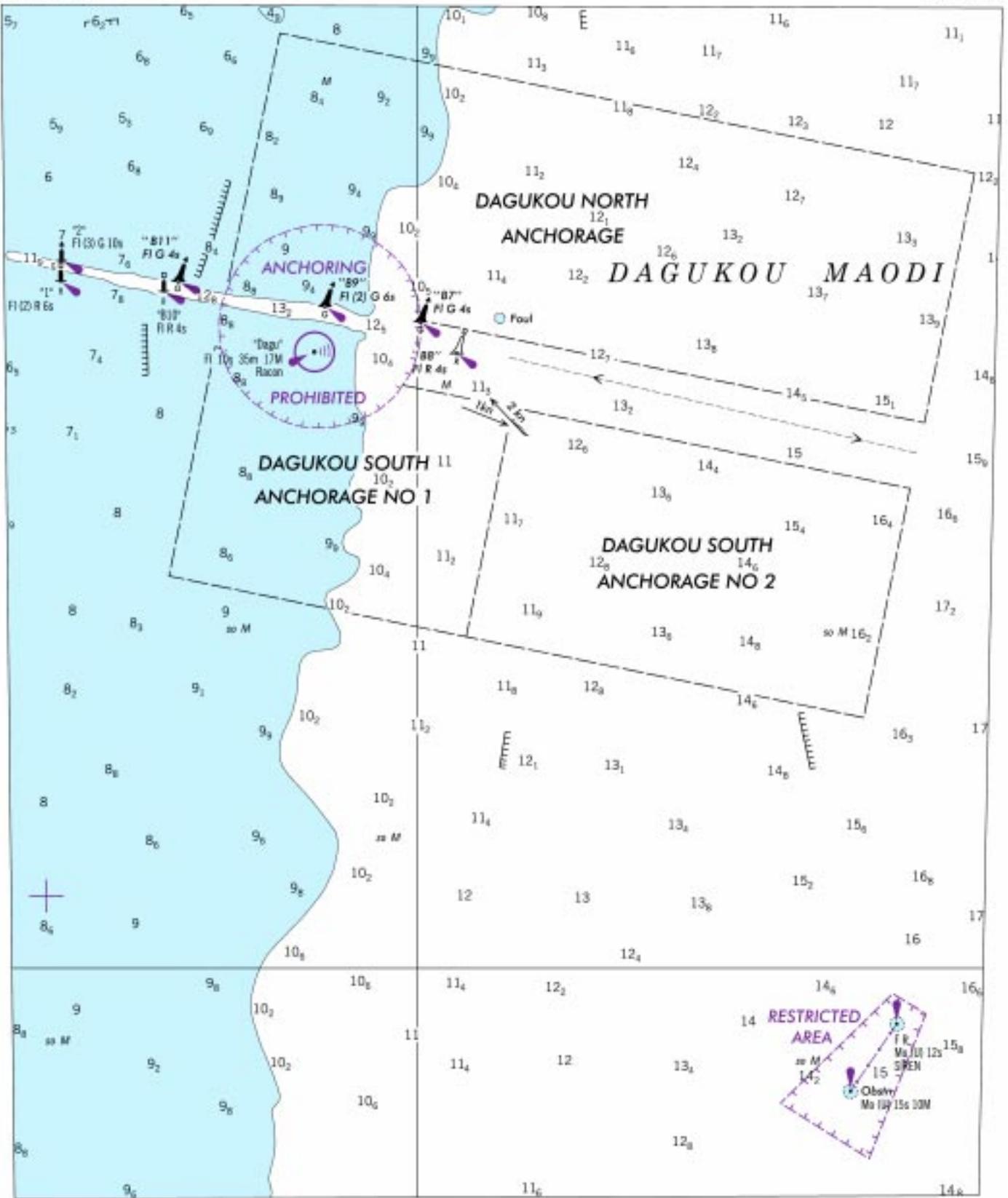


Chart 94363

NM 16/03



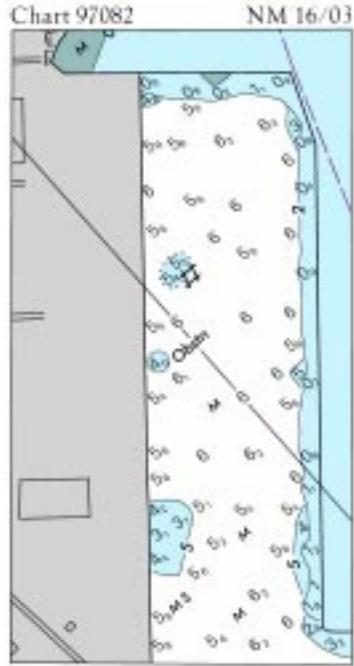
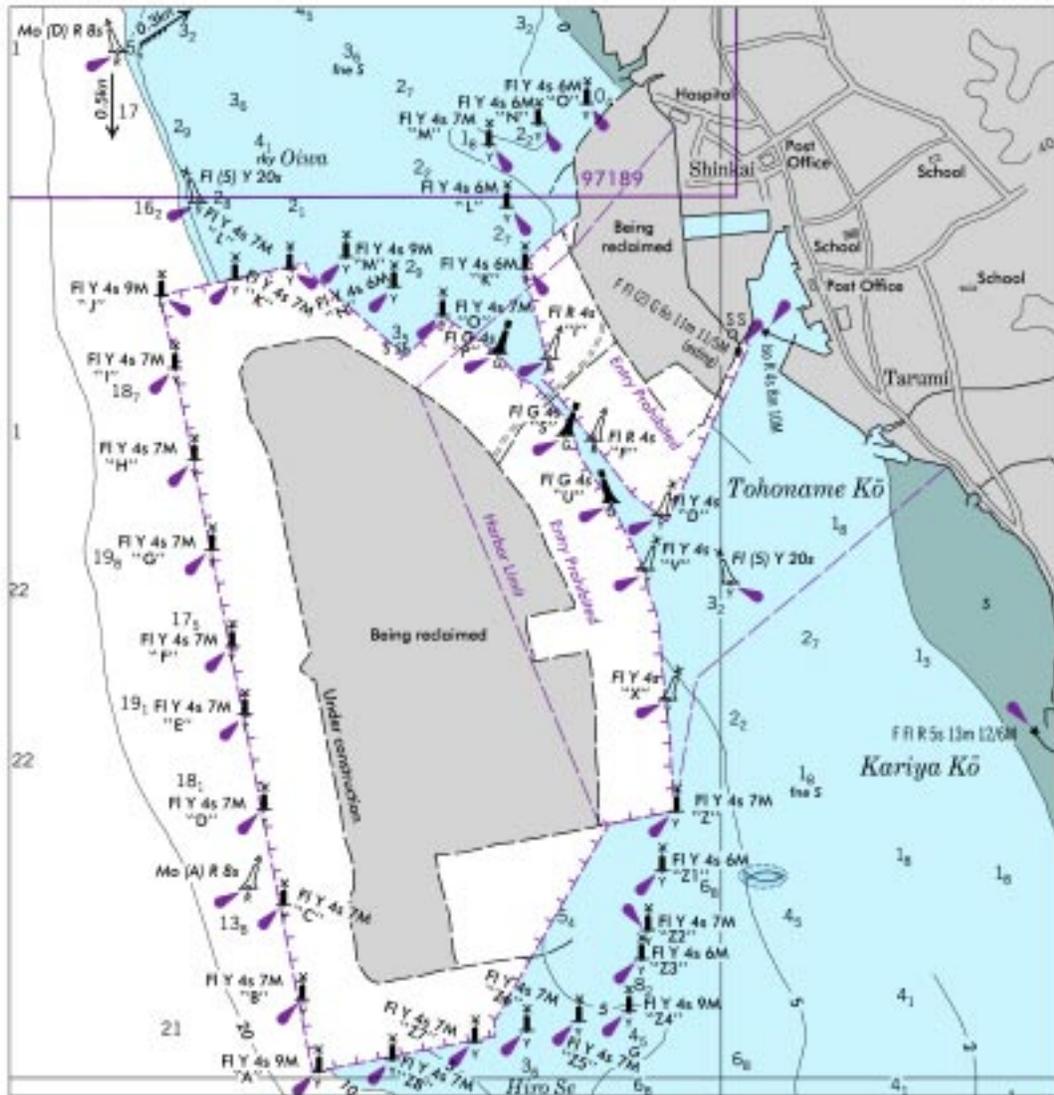


Chart 97183

NM 16/03



## SECTION I

NM 16/03

Chart 11301

NM 16/03

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS: ENTRANCE CHANNEL	46.0	46.0	46.0	12-02	300	1.7	44
LAGUNA MADRE CHANNEL	44.0	44.0	44.0	12-02	250	2.5	42
BROWNSVILLE SHIP CHANNEL: JUNCTION BASIN TO BOCA CHICA PASSING BASIN	44.0	44.0	44.0	12-02	250	3.5	42
BOCA CHICA PASSING BASIN TO GOOSE I. PASSING BASIN	44.0	44.0	44.0	12-02	250	4.7	42
GOOSE I. PASSING BASIN TO BROWNSVILLE TURNING BASIN	40.0	43.0	39.0	12-02	300	2.4	42
BROWNSVILLE TURNING BASIN	31.0	37.0	35.0	12-01; 12-02	500-1200	1.7	42-36
PORT ISABEL CHANNEL: JUNCTION TO TURNING BASIN (INCLUDING WIDENER AT JUNCTION)	36.0	36.0	34.0	2-02	200	1.0	36
PORT ISABEL TURNING BASIN	35.0	35.0	34.0	2-02	1000	0.2	36
CUT OFF CHANNEL	36.0	36.0	36.0	2-02	200	0.9	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11302 (Side B)

NM 16/03

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS: ENTRANCE CHANNEL	46.0	46.0	46.0	12-02	300	1.7	44
LAGUNA MADRE CHANNEL	44.0	44.0	44.0	12-02	250	2.5	42
BROWNSVILLE SHIP CHANNEL: JUNCTION BASIN TO BOCA CHICA PASSING BASIN	44.0	44.0	44.0	12-02	250	3.5	42
BOCA CHICA PASSING BASIN TO GOOSE I. PASSING BASIN	44.0	44.0	44.0	12-02	250	4.7	42
GOOSE I. PASSING BASIN TO BROWNSVILLE TURNING BASIN	40.0	43.0	39.0	12-02	300	2.4	42
BROWNSVILLE TURNING BASIN	31.0	37.0	35.0	12-01; 12-02	500-1200	1.7	42-36
PORT ISABEL CHANNEL: JUNCTION TO TURNING BASIN (INCLUDING WIDENER AT JUNCTION)	36.0	36.0	34.0	2-02	200	1.0	36
PORT ISABEL TURNING BASIN	35.0	35.0	34.0	2-02	1000	0.2	36
CUT OFF CHANNEL	36.0	36.0	36.0	2-02	200	0.9	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

## SECTION I

NM 16/03

Chart 11317

NM 16/03

MATAGORDA SHIP CHANNEL							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	39.0	38.0	39.0	6-02	300	3.21	38
THENCE TO LIGHT 48	34.0	36.0	34.0	6-02	300-200	10.84	36
THENCE TO LIGHT 76	32.0	34.0	34.0	6-02	200	7.42	36
THENCE TO POINT							
COMFORT TURNING BASIN	32.0	30.0	30.0	11-02	200-399	0.98	36
TURNING BASIN	33.0	34.0	34.0	11-02	1000	0.17	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11324

NM 16/03

GALVESTON BAY AND HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
GALVESTON HARBOR:								
ENTRANCE CHANNEL	43.0	46.0	43.0	37.0	9-02	800-1000	7.5	45
OUTER BAR CHANNEL	39.0	45.0	47.0	46.0	9-02	800	1.5	45
INNER BAR CHANNEL	38.0	42.0	43.0	37.0	9-02	800	2.9	45
BOLIVAR ROADS CHANNEL	48.0	48.0	46.0	41.0	9-02	800	0.7	45
HOUSTON SHIP CHANNEL:								
BOLIVAR ROADS TO LOWER								
END OF MORGAN PT.	26.0	40.0	38.0	24.0	9-02; 1-03	400-530	23.4	40
GALVESTON CHANNEL	25.0	31.0	34.0	24.0	7-02	1125-1075	3.5	40
TEXAS CITY CHANNEL	35.0	43.0	42.0	38.0	12-02	400	5.9	40
TEXAS CITY TURNING BASIN	38.0	38.0	38.0	38.0	12-02	1200	0.5	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 16/03

Chart 11325

NM 16/03

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HOUSTON SHIP CHANNEL- EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	32.0	36.0	39.0	34.0	11-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	33.0	38.0	33.0	26.0	1-03	400-300	4.70	40
GREENS BAYOU CHANNEL (TO FIRST BEND)	39.0	42.0	44.0	42.0	4-02	500-175	0.34	36
THENCE TO HUNTING BAYOU (UPPER BEND)	40.0	43.0	43.0	40.0	8-02	300	1.91	40
TURNING POINT AT HUNTING BAYOU	43.0	43.0	42.0	42.0	9-02	600	0.17	40
THENCE TO SOUTHERN PACIFIC SLIP	39.0	41.0	41.0	38.0	8-02	300	3.04	40
TURNING POINT AT SIMS BAYOU	43.0	44.0	43.0	42.0	9-02	700	0.26	40
THENCE TO HOUSTON TURNING BASIN WHARF 15	21.0	32.0	36.0	34.0	1-03	300	2.69	36
TURNING POINT AT BRADY ISLAND	21.0	32.0	40.0	38.0	1-03	422	0.17	36
HOUSTON TURNING BASIN	36.0	35.0	37.0	35.0	7-02	250-1000	0.70	36
UPPER TURNING BASIN	21.0	22.0	15.0	19.0	7-02	150	0.23	36

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.  
 B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11327

NM 16/03

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	26.0	40.0	38.0	24.0	9-02; 1-03	400-530	23.4	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11328

NM 16/03

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	26.0	40.0	38.0	24.0	9-02; 1-03	400-530	23.4	40
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	36.0	38.0	33.0	10-02	400-525	4.2	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

## SECTION I

NM 16/03

Chart 11329

NM 16/03

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	38.0	38.0	33.0	10-02	400-525	4.20	40
EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	32.0	36.0	39.0	34.0	11-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	33.0	38.0	33.0	26.0	1-03	400-300	4.70	40

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.  
 B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS.  
 DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE  
 CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.  
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

**CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03**

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
12	1	45/02	11318	1	N21,N29,N46/02;N6/03	11392	6	34/02	11512	59	10*,11,15/03
50	5	17/02	11319	30	25,40/02	11393	20	18/02	11513	23	18,32,49/02;1/03
52	1	18/02	11320	1	N28/02	11400	34	23,39/02;4,9,11,12,13/03	11514	26	37*,40,49/02;4,5,15/03
53	2	17/02	11321	29	22,28,39,40,41,45/02	11401	29	23/02	11516	29	18,24,37,49/02
70	4	7/03	11322	27	21,22,24,36,37,49/02;4/03	11404	21	15,23,50/02;9/03	11517	17	32/02
71	4	7/03	11323	59	26*,28,33,37,39,45/02;1,6,7,9/03	11405	28	31/02*;9/03	11518	33	14/03*
72	4	7/03	11324	32	22*,24,25,31,33,37/02;1,6,7,9,10,16/03	11406	11	9/03	11520	40	31*,39,40,44,46,51/02;4,6,7,8/03
101	3	48/02	11325	34	19*,21,24,35,37,49/02;4,6,8,16/03	11407	18	15/02*	11521	26	15*,17,32,35/02;9/03
103	5	16/03	11326	31	7*,9,16/03	11408	28	3/03*	11523	21	15*,17,32,35,52/02;5,9/03
108	9	32,35/02	11327	30	16,21,22,24,28,37,49/02;1,16/03	11409	27	4,11/03	11524	46	8*,11,12,13,15/03
301	1	14/03	11328	22	21,36,37,39,47,49/02;4,6,16/03	11411	14	43*,45/02;7/03	11525	6	N17,N19,N23,N39,N40,N44,N46,N51/02;N4,N6,N8/03
302	1	2/03	11329	34	21,24,36,37,39,47,49/02;1,4,8,10,16/03	11412	41	42*,45/02;1,6,7,11,12,13,14/03	11527	16	37/02
310	20	2,14/03	11330	14	2*,4,6,7,8/03	11415	5	42*,45/02;1,2,7,14/03	11531	21	31/02*;11/03
400	3	23,26,31,32,33,35,45/02	11331	18	17,23/02;8/03	11416	5	42,48/02;1,2,6,11,12,14/03	11532	20	15*,37/02
401	5	22,23,26,31,33,35,45/02;14/03	11332	28	42*,43,49,51/02;6/03	11420	26	20,39,42/02;4,7,8,15/03	11533	31	32/02;7,13/03
411	48	16,22,23,26,31,32,33,35,40,42,45,50/02;5,6,14/03	11333	1	N28/02	11423	7	N20,N24,N39,N42/02;N4,N8,N15/03	11535	12	25,46/02
501	12	9*,10/03	11334	67	2*,5,6,7,8,9,14/03	11424	18	14/03	11536	15	19*,40/02;4,7/03
502	2	52/02	11341	39	14/03*	11425	34	46*,49/02;4/03	11537	33	17,20,23,31,32,33,39,40,42,44,50/02;4,5,7,10,13/03
507	2	45/02	11342	51	17,21,23,24,30,37,43,49/02;4,8/03	11426	35	31/02*	11539	18	39,44,51/02;6/03
508	2	15,24,45/02	11343	36	17,21,23,37,40,49/02;4,8/03	11427	33	2/03*	11541	33	8*,9,14/03
513	6	17,38/02	11344	35	9/03*	11428	32	52/02*;6/03	11542	15	39/02
520	127	20,38/02	11345	31	9/03*	11429	21	47/02*	11543	22	18,29,39/02;8/03
521	11	17/02	11347	33	42*,43,47,49/02;4,6,7,8/03	11430	24	16/02;14/03	11544	37	36/02*;8/03
522	87	18/02	11348	19	23/02;6,7/03	11431	12	31/02*	11545	60	45*,47/02;6,8,14/03
523	8	17/02	11349	40	38*,42,51/02	11434	24	21/02*;15/03	11547	35	22*,25,29,30,37,47/02;6,8,14/03
524	12	18,47/02	11350	24	15/02*	11435	13	N20/02;N8,N15/03	11548	38	47/02*
525	3	18/02	11351	37	15,16,19,22,27,28,30,33,36,37,38,40,47,51/02;5,6,7,8/03	11438	11	7,8/03	11553	28	8/03*
526	10	18,47/02;6/03	11352	36	3*,7,8,9/03	11439	25	15/02*;6,7,15/03	11555	38	36/02*;7/03
530	30	22*,26,37,38,40,52/02;6,10/03	11353	2	21*,24,25,26,35,38,43,45,49/02;4,5,7/03	11441	39	36/02;6,7,15/03	12200	47	38*,42,52/02;7,12/03
531	21	18*,47,52/02	11354	23	15,16,19,22,27,28,33,37,38,40,47,51/02;7,8/03	11442	33	6,7,15/03	12201	25	N15,N17,N19,N23,N42,N52/02;N7,N12/03
532	17	17,38/02	11355	24	37*,40,51/02	11443	30	7,15/03	12204	35	10/03*
540	16	51/02;16/03	11356	34	28,29,39,40,42,45,47,51/02;6,7/03	11444	16	7/03	12205	27	37*,43,52/02
541	2	6/03	11357	35	36*,37,40,42,51/02;6,9/03	11445	8	26*,28/02;15/03	12206	29	31*,33,38,46/02;10/03
550	7	18,24,45/02;6/03	11358	51	23*,24,26,27,31,39,42,51/02;7/03	11446	30	36/02;7,15/03	12207	20	23,50,52/02
601	4	6,8/03	11359	11	22*,26,39/02	11447	35	38/02*	12208	8	18,23,50,52/02
602	6	47/02;6/03	11360	40	1*,2,5,6,8/03	11448	14	7/03	12210	36	8/03*
603	6	47/02;10/03	11361	69	16,17,19,22,24,25,26,27,31,34,36,45,51/02;6/03	11449	16	7/03	12211	41	10/03*
604	5	18/02	11362	4	N16,N17,N18,N22,N23,N24,N28,N29,N31,N33,N36,N39,N40,N47/02;N2,N5,N6,N8/03	11450	8	26*,28/02;15/03	12214	44	14/03*
605	4	6/03	11363	38	26*,29,35,38,40,43,49,51/02;4,5,7/03	11451	30	22,28,43/02;7,9/03	12216	27	47/02*
621	5	22/02	11364	39	3*,4,5,8,9/03	11452	21	31/02*	12221	73	52/02*;1,4,6,7/03
622	9	20,47/02;6/03	11365	17	52/02*;9/03	11453	16	7/03	12222	43	14/03*
623	9	47/02	11366	7	48*,51/02;5,6,7,8/03	11454	16	7/03	12224	23	8/03*
624	3	22/02	11367	31	16,17,25,33/02	11455	37	47*,50/02;4,12/03	12225	53	28*,30,31,47/02;4,6,7/03
632	8	15,24,45/02	11368	22	38/02*	11456	39	42*,43,49/02	12226	16	22,30/02;7/03
702	5	7/03	11369	44	9/03*	11457	5	15,24,27,35,50/02;7,9,12/03	12228	29	43/02*
703	4	46/02;7/03	11370	23	17,31,33,40,51/02;9/03	11458	19	16/02;6/03	12230	59	52/02*;1,7,14/03
705	3	46,52/02	11371	35	7/03	11459	16	16,27,51/02;13/03	12231	26	31,35,46/02;7/03
709	2	50/02	11372	30	2*,7,8,10/03	11476	19	16/02;6/03	12232	35	3*,4,5,6,14/03
800	4	17/02	11373	42	31*,33,37,40,41,42,45,49/02;7,9/03	11477	6	N16/02	12235	29	30,31,47/02;4,6,7/03
803	1	17/02	11374	31	45*,49,50/02;1,2,7,8,9/03	11478	19	15,16,31,49/02;6/03	12237	26	27,47/02
1113A		20,39,42/02;4,7,8,15/03	11375	35	1*,2,5,7,9/03	11479	4	N15,N24,N27,N28,N29,N35,N50/02;N6/03	12238	37	46/02*;1,4,7/03
1114A		23,39/02;4,9,11,12,13/03	11376	48	15,16,21,22,23,25,27,29,31,40,43,50/02;2,7/03	11480	37	32,35/02;1/03	12241	21	16,34,44/02;7/03
1115A		1*,2,5,6,8/03	11377	4	26*,40,50/02;2/03	11481	4	42*,49/02;6,12,13/03	12242	61	14*,15/03
1116A		2*,5,6,7,8,9,14/03	11378	32	11*,12/03	11484	21	15,16/02	12248	39	18*,30,33,40,50/02;4,5,6,8,15/03
1117A		28*,30,31,37,39,40,41,42,45,51/02;1,6,7,8/03	11379	39	46/02*;9/03	11485	32	15,34/02;13/03	12251	23	35/02;4,6,7,15/03
11004	7	15,16,18,22,26,28,31,37,39,40,42,43,45,47,51/02;5,6,7,8,9,14/03	11380	49	19*,22,27,30,32/02;9/03	11488	24	7/03	12252	23	33,34/02;4,7,10,15/03
11006	30	28*,36,39,40/02;2,6/03	11381	32	18,22,30,32/02;9/03	11489	34	8*,12/03	12253	42	33,38,42,46,50/02;10,13/03
11009	36	19,23,24,32,35,44,51/02;6,12/03	11382	25	23/02*	11491	33	18,22,28,29,30,34,37,38/02;12/03	12254	43	38*,43,44/02
11013	44	18*,20,35,50/02;6,7,8,9,13,16/03	11383	16	17/02	11494	8	N24,N39/02	12255	15	44/02
11300	38	26*,28,30,31,37,39,40,41,42,45,51/02;1,6,7,8/03	11384	32	18,22,30,32/02;9/03	11495	16	19/02*	12256	13	19*,33,44/02
11301	23	21,37/02;16/03	11385	25	23/02*	11496	9	N32,N35/02;N1/03	12261	28	37*,44/02;7/03
11302	29	34*,37/02;16/03	11386	16	17/02	11498	16	19/02*	12262	51	38/02*;7/03
11305	1	N21,N26,N29,N36,N46/02;N1,N6,N7/03	11387	32	18,23,28,33,37/02;2,7/03	11502	28	14/03	12264	28	38/02*;7/03
11307	36	28,31/02	11388	16	17/02	11503	39	38*,39,43/02;12,14/03	12266	27	30/02
11308	22	3*,7,10/03	11389	32	18,23,28,33,37/02;2,7/03	11504	15	12/03	12268	10	22/02*
11309	36	21,26,28,36,46/02;1,6,7/03	11390	22	23*,27,33,34,37/02;7/03	11505	1	16,18,26,28,31,34,40,49/02;1,4,5,11/03	12270	32	9/03*
11310	1	N21,N46/02	11391	22	18,23,33,34/02;7/03	11506	40	10/03*	12272	29	26*,27,36,45/02;13,16/03
11311	23	15*,21,46/02				11507	21	20/02;1,11/03	12273	53	26*,31,36,45,50/02;5,15/03
11312	3	21,26,28,36,46/02;1,6,7/03				11508	31	9*,12/03	12274	33	37*,50/02;5,15/03
11313	22	31/02				11509	27	10/03*	12277	31	26*,50/02;8/03
11315	30	37/02*				11510	18	34/02	12278	72	26*,36,45/02
11316	38	16,21,25,36,37,40,49/02				11511	16	11/03	12280	3	37*,43,45,46,47,50,52/02;1,6,7/03
11317	29	20*,21,25,37,40,49/02;16/03							12281	49	15/02;12/03
									12282	33	31*,44/02;7,8/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
12283	24	8/03	13241	15	21*,34,42/02	14244	5	19/02;16/03	14924	27	28*,32/02;5/03
12284	15	7/03	13244	39	22*,48/02;7/03	14260	47	35/02	14926	9	18,31,32,35,37/02
12285	35	11*,14/03	13246	36	26,27/02;8/03	14280	37	35/02	14927	24	21*,31,32,35,37/02
12286	29	2*,4,6/03	13253	18	3*,8/03	14310	2	52/02;12/03	14928	21	4/03*
12288	19	27/02	13260	38	28*,36,43,48,49,50/02;1,7,9/03	14340	25	16,17,26,33,37,40,52/02;12/03	14929	24	14/03*
12289	48	10/03*	13263	7	N20,N21,N25,N27,N36,N43,N48,N49/02;N1,N7,N9/03	14341	5	12/03	14930	24	45/02
12300	42	17,18,19,28,29,37,39,42,45/02;5/03	13264	103	21,36,49/02;9/03	14342	20	52/02	14931	24	35/02*
12301	21	N20*,N28,N29,N37,N39,N42,N45/02;N5/03	13267	30	17,19,27,52/02;1,7,9/03	14344	2	37,40/02	14932	22	32/02;9/03
12304	42	28*,42,52/02	13270	59	17,19,33,34,40,43/02;1,2,7,12/03	14345	5	37,40/02;12/03	14933	24	35*,37/02
12311	41	15,18,28,31,42,50,52/02;8/03	13272	47	19,28,40/02;8/03	14349	7	16/02	14934	26	2/03
12312	52	10*,15/03	13274	24	17,19,27,45,52/02;1,2,16/03	14357		N52/02	14935	21	17/02
12313	48	18,21,27,31,33,43,52/02	13275	27	17,19,27,45,52/02;1,2,7,16/03	14358		N17,N36/02	14937	24	52/02*;2/03
12314	30	46*,50/02;5/03	13276	21	19,27,52/02	14360	36	16,26,33,36/02	14942	25	35/02
12316	29	2*,6/03	13278	25	1,9/03	14386	3	36/02	14963	20	51/02
12317	31	15*,26,37,50/02	13279	29	1/03	14415	4	33/02	14965	21	11/03*
12318	41	9/03*	13282	10	12/03	14500	27	52/02*	14966	25	14/03*
12323	23	19,40/02;4/03	13283	18	1,9/03	14769		N31/02*	14967	22	5/03
12324	30	2*,8/03	13286	29	39*,40,50/02;1,9/03	14772	17	15/02	14970	25	40,46,51/02
12326	48	17,18,27,28/02;4,8/03	13288	40	15*,20,23,29,36,43,50,51/02	14773	16	15,19/02	14972	25	21/02
12327	96	1*,2,8,12,13,14,16/03	13290	34	20,36,40,43,50,51/02;7,16/03	14774	16	15/03	14973	27	15/03*
12331	30	8*,13,14/03	13292	36	20*,36,40/02;7,16/03	14775		N31/02*	14974	24	32/02
12332	21	15,22,43,46/02;13/03	13293	33	26*,29,43,51/02;14/03	14776		N31/02*	14975	33	52/02*
12333	32	46*,47/02;5,12,16/03	13295	11	2*,14/03	14777		N31/02*	14984	9	18/02*
12334	65	10*,12,16/03	13296	25	43/02	14782	24	21,22/02	14995	11	52/02*
12335	39	1,8/03	13298	10	43,52/02	14785	16	22/02	15313	1	15/03
12337	22	15,20,28,31,45/02;13/03	13301	20	25,33,51/02	14786	13	24/02	15562		N41/02;N16/03
12341	25	22/02*	13302	21	20,25,41/02;2,7,9/03	14800	9	19,23/02	15585		N14/03
12343	18	37/02*;7/03	13303	12	48/02*;7,9/03	14803	26	5/03	15744		N30/02
12345	10	42/02*	13305	28	25,40,41,49/02;2,7,9/03	14804	24	20/02*;5/03	15880		N41/02
12347	29	25/02	13308	11	40/02	14810	4	19/02	15954		N47/02*
12348	33	25/02	13309	28	42/02*;9/03	14812	3	19/02	16003	16	18/02*;13/03
12350	57	39*,49/02	13312	21	10/03*	14813	21	2/03*	16004	11	13/03
12352	29	34/02	13313	19	21,25,41,49,52/02;6,9/03	14816	23	5/03	16006	33	6/03
12354	39	22,28,33,37,45/02;2,6,7,10/03	13315	11	19*,49/02	14820	19	11/03*	16011	35	38/02;8/03
12358	19	46*,49/02;1,7,10/03	13318	18	38*,41,52/02;5,6/03	14822	31	10/03*	16012	21	38/02
12362	16	49/02	13322	9	19/02*	14823	30	1/03*	16013	28	17,22,29,52/02
12363	39	18,28,44/02;6/03	13323	7	5/03	14824	25	24/02	16042	7	39/02*
12364	33	20*,22,28,44,47,49,51/02;4,6/03	13324	13	41,52/02;2/03	14826	27	4/03*	16061	8	19*,27,37,49/02;13/03
12365	26	18/02;6/03	13325	14	2/03	14827	5	21/02	16300	8	52/02;3,8/03
12366	27	51/02	13326	12	41,43/02	14829	5	21/02	16305	9	8/03
12367	23	18/02	13327	3	39/02*;9/03	14830	29	18,23,39,51/02;2/03	16322	7	8/03
12368	26	42/02*	13329	2	6/03	14832	34	52/02*	16363	12	38/02*
12369	25	31*,44/02	13394	3	39/02*;9/03	14833	25	20,26/02	16380	13	17/02
12370	18	39/02*	13396	4	9/03	14835	31	39/02	16381	8	8/03
12371	22	28,47/02;6,13/03	13398	3	19*,36/02	14836	27	42/02*	16382	10	17/02
12372	31	45*,47,48/02;2,5,6/03	14002	57	21/02	14837	27	26/02*;3/03	16435	5	27/02
12373	14	2/03	14003	6	16,25,48,49/02;5,9,12/03	14838	3	52/02*	16440	13	37/02
12375	21	22/02	14008	76	21/02	14839	36	9/03*	16441	7	37/02
12377	14	22,25,37/02	14010	5	21,35/02	14842	12	18,23,39/02;2,4/03	16442	6	37/02
12378	4	2,13/03	14018	6	16/02	14843	22	23,39,51/02	16480	10	38/02
12401	7	31*,47/02;2,13/03	14024	5	33,36,39/02;12/03	14844	31	18/02;4/03	16500	9	9/03
12402	8	31*,33,47/02;13/03	14040	65	40/02	14845	26	18/02;4/03	16520	21	2/03
13000		N21,N25,N48,N49/02	14044	44	6/03	14846	11	18,23,24,39,40/02;2/03	16521	5	27/02
13003	46	9*,12/03	14061	27	6,9/03	14847	30	24,40/02	16528	16	9/03
13006	30	39*,44,48,49,50/02;1,5,9/03	14066	19	6/03	14848	56	23,24,31/02;9/03	16529	14	50/02;9/03
13009	30	42*,48,49/02;1,9/03	14067	11	6/03	14850	51	21*,23/02;7/03	16530	6	50/02
13200	33	25,37,48/02;7,9/03	14083	30	33/02	14852	44	20,23,25,26,37/02;7/03	16531	7	18/02*
13201	10	N25,N37,N48/02;N9/03	14087	58	33/02	14853	13	21*,23,24,25,26,31,37/02;7,9/03	16535	12	2/03
13203	12	37/02	14088	10	41/02*	14854	13	24/02	16549	14	4,16/03
13205	36	37,42,45,48/02;1,5/03	14089	29	41/02*	14860	35	21,24/02	16556	4	8/03*
13209	23	37/02	14090	2	33/02	14862	28	26/02*	16566	10	17/02
13211	13	21,23,47/02	14091	6	41/02*	14863	30	24/02	16568	12	39/02*
13212	35	9*,13/03	14111	7	14/03	14864	26	24,37/02	16575	1	39/02
13213	40	14/03*	14144	29	21/02	14865	16	4/03	16576	3	42/02;6/03
13214	27	34*,45,48/02;5/03	14151	2	37/02	14867	25	32/02	16580	11	39/02
13215	17	45,48/02;1,5/03	14180	38	21/02	14871	2	21/02	16590	10	38/02*
13216	1	N48/02	14203	12	19/02	14872	3	21/02	16592	9	16/03
13218	38	29,42,45,51/02;5/03	14204	21	19/02	14873	2	35/02	16593	11	14/03*
13221	53	15,29,44,51/02;2,5,7/03	14206	20	19/02	14880	30	33/02;4/03	16594	13	2/03
13223	36	15,52/02;2/03	14208	28	40/02	14881	31	28*,33/02	16595	14	2/03
13224	36	44/02;5/03	14221	26	40,46/02	14882	42	17,23/02	16596	12	39/02*
13226	5	44/02;6,7/03	14222	16	46/02	14885	20	51/02	16597	8	16,43/02
13227	13	7/03	14223	18	3,16/03	14901	14	52/02*;5/03	16598	9	43/02
13228	11	51,52/02	14225	17	38/02;16/03	14902	28	24,25,31/02;4/03	16599	6	16,43/02
13229	27	17,39,42,45,52/02;1,7/03	14226	32	40/02;6/03	14903	22	23,32/02	16603	7	42/02;6/03
13230	46	2*,7/03	14227	28	40/02;6/03	14904	25	17,31,32,46/02	16604	11	22/02*
13232	4	39,42/02	14228	11	40/02;6/03	14905	29	31,35,37/02;5/03	16606	11	37/02*
13233	16	17/02;10/03	14240	6	16,34/02;1/03	14906	23	5/03	16608	3	6/03
13235	5	17/02	14242	13	34/02	14907	25	17/02	16646	12	8/03
13236	29	45/02;1,7/03	14243	8	19,34/02	14910	22	25,31/02	16660	28	22,25,29,42/02;6,16/03
13237	38	17,42,48/02;7,10/03				14911	20	4/03	16662	6	22,29/02
						14916	10	45/02*	16663	6	22,25,29,42/02;6,16/03
						14917	23	17/02;3/03	16665	7	22,25,29,42/02;6,16/03
						14918	26	25/02	16680	10	6/03
						14919	27	24/02	16681	10	37/02*
						14922	19	26*,51/02;9/03	16682	15	8/03*
									16683	9	3,6/03

**CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03**

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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
16700	27	21*,49,52/02;9,16/03	18000	8	45/02;6,10/03	18561	11	33,39/02;10/03	19327	10	23/02
16701	18	21*,52/02;9/03	18002	6	N45/02;N2,N6,N10/03	18580	21	26,33,38,39/02	19339	1	N25,N35,N49,N51/02; N5,N13/03
16702	10	38,52/02;1,9,13/03	18003	18	26,33,38,39,40,P44,45, 47,48,52/02	18581	17	49/02*;4/03	19340	26	25,35,49,51/02;5,13/03
16705	19	49/02;16/03				18583	38	31,33,42,49/02;12/03	19347	17	25/02
16707	10	34,37/02;16/03	18005	4	N20,N34/02;N6,N10, N13/03	18584	47	30,39,49/02;4,6/03	19350	11	27/02
16708	25	37,49/02;16/03				18587	68	25,30,33,39,42/02;4,6,9, 10/03	19351	9	25/02
16709	22	15*,49/02	18006	3	N6/03	18588	36	32,33,49/02	19357	22	42*,49,51/02;5,13/03
16711	2	15/02*	18007	31	20,26,33,34,37,38,39,40, 47,52/02	18600	14	15*,33,37,38,40/02	19358	20	28/02*
16712	1	16/03				18601	13	10/03	19359	10	12,16/03
16713	2	49/02	18008	7	N20,N26,N33,N34,N37, N38,N39,N40,N47, N52/02	18602	11	26,32,33/02;10/03	19362	12	49/02
16741	9	46/02				18603	16	9*/10/03	19366	36	31,49/02;5/03
16760	10	51/02	18009	2	N34/02;N6,N13/03	18620	23	35/02*	19367	37	22,31,49/02;10/03
16762	9	26/02*	18010	20	33,34,37,38,39,40/02;6, 13/03	18622	52	26,28,49/02	19369	5	22,31,49/02;10/03
17003	4	47,52/02				18623	11	34/02	19379	1	N25,N51/02;N5,N13/03
17005	10	41,45,47,52/02	18020	36	20,34,37,45/02;6,10, 13/03	18626	15	37/02;10/03	19380	14	25,51/02;5,13/03
17008	12	43/02				18640	24	15,24/02	19381	8	25,49,51/02
17300	30	52/02*	18022	33	23,34,37,45/02;6,10, 13/03	18645	24	15,19,50/02	19383	17	49/02;5/03
17302	18	21*,51/02				18647	15	2/03*	19385	7	20/02*
17303	9	15,37/02	18400	43	2*,6,16/03	18649	62	15,19,20,23,33,36,38, 41/02;4,6/03	19387	9	N25/02
17315	23	2*,16/03	18403	21	6/03				19401	8	10/03*
17316	20	28/02*;3/03	18405	12	43/02;16/03	18650	51	28*,33,38,41/02;4/03	19402	6	9/03*
17320	15	15/02;13/03	18406	5	16/03	18651	42	15/03*	19421	7	8/03*
17323	10	13/03	18411		N16/03	18652	31	18,19,20,23,26,27,30,33, 38,41,49/02;4,6,7,12, 16/03	19442	5	14/03*
17327	20	5/03	18415	8	42/02;7/03	18653	9	15,19,36,38,41/02;4,6/03	19461	7	10/03*
17330	7	15/02	18416	6	P44,48/02	18654	42	28*,38,49/02;12,16/03	19483	6	11/03*
17360	32	44/02;1,6,8,11,12/03	18418	6	15/03	18655	58	19,49/02;12,16/03	21005	5	45/02;2/03
17379	1	15*,20/02	18419	11	47/02;12/03	18656	52	19,23,26,27,30/02;4,7, 16/03	21008	62	39,42,43,50/02;1,2/03
17382	14	44/02;1,6,8,11,12/03	18421	45	2/03*	18657	18	19,26,27,30/02;4/03	21011	5	2/03
17383	1	31*,49/02;8/03	18423	33	1*,5,7,9,15/03	18658	29	23,26,27/02;4/03	21017	72	42,50,52/02;2,3,4/03
17384	7	44/02	18424	25	7/03	18659	14	26,30,49/02;7,16/03	21020	42	23,41/02;5,6,7/03
17385	14	14/03*	18427	21	35/02*;7/03	18660	1	30,49/02;7,16/03	21021	3	45/02;13/03
17400	16	15,36/02;10,12/03	18428	9	19/02*	18661	27	15*,16/03	21023	41	34/02;7,8,9/03
17401	10	1/03	18429	9	3/03*	18662	20	30/02;7/03	21033	46	20,32/02;1,16/03
17402	10	46/02*	18430	7	28/02*;6,7/03	18663	5	14/03*	21036	7	1,16/03
17405	14	12/03	18431	6	2/03*	18666	1	26/02	21120	27	47,50,51,52/02
17409	10	39/02*	18432	5	14/03*	18668	30	15/02;6,13/03	21121	18	47/02
17413	2	43,50/02;10/03	18433	5	2/03*	18685	31	25/02;6,12/03	21122	5	47/02
17414	3	41/02	18434	4	15,26,P44,48/02;6,9/03	18687	13	8/03*	21125	13	51,52/02
17416	3	10,14/03	18440	26	3*,15/03	18700	21	34,36,37/02;4,6,10,13/03	21126	1	50/02
17420	26	36,37,42,43,50/02;1,10, 12,14/03	18441	42	30*,32,39/02;6,7,9,15/03	18703	24	36,37/02;4/03	21140	1	45,50/02;12/03
17422	8	52/02*	18443	15	17,39/02;6/03	18704	12	37/02	21141	23	48/02
17425	6	18/02*	18444	15	17,39/02	18720	31	23,35/02;4,6,10,12/03	21160	1	45/02
17426	13	37/02;1,16/03	18445	29	15,17,22,28,32,33,39/02; 6,7,9,10,15/03	18704	12	37/02	21161	19	43,48/02
17427	7	16/02	18446	15	6,7,9/03	18721	11	35/02;6,10/03	21180	1	2,7/03
17428	7	5/03	18447	26	27,52/02;6,7,10/03	18722	3	6/03	21182	34	39/02
17429	2	N38/02*	18448	32	15,17,33/02;10,15/03	18723	3	6/03	21184	1	2/03
17430	10	5/03	18449	17	15,17/02;7/03	18725	26	23,35/02;4,6,12/03	21301	13	3,12/03
17434	11	5/03	18450	17	9/03*	18740	39	16,20,23,34,37,45,50/02; 5,6,12/03	21342	28	41,44/02
17437	8	16/02	18451	16	17/02	18741	18	N25,N45,N50/02;N12/03	21384	3	23/02;6/03
17438	12	16,50/02;10,14,15/03	18452	16	17/02	18744	30	37/02	21401	20	7/03
17441	7	10,15/03	18453	24	14/03*	18746	34	20,23,34/02;5,13/03	21441	27	34,44/02
17443	12	10/03	18455	2	N17,N22,N39/02;N15/03	18749	38	16,18,20,23,25,27,40/02; 5,6,16/03	21478	3	9,16/03
17445	2	16/02;10,14/03	18457	9	15/02	18751	42	16,20,25,27,40/02;5,6, 16/03	21510	1	9,16/03
17446		N10/03	18458	14	17,22,32,39/02;9,15/03	18754	16	36/02	21563	3	45/02
17460		N5/03	18459	5	N17,N22,N32,N39/02; N9,N15/03	18757	10	13/03	21602	1	28/02
17465	4	6,12/03	18460	11	2*,6,7/03	18758	6	35/02*;16/03	21603	9	5/03
17471		N15/02;N6/03	18464	22	32/02;7,15/03	18760	6	N16,N23,N34,N35,N45, N50/02;N6/03	21605	7	19/02
17472	4	5,14/03	18465	35	2*,15/03				21661	12	6/03
17480	4	15,43/02;5,10/03	18468	17	7/03	18761	2	N20/02	22004	38	18,20,23,30,32,34,36,39, 41,43,52/02;16/03
17482		N7,N14/03	18471	8	32/02;7,15/03	18762	15	20/02	22008	35	18,30,34,36,39,41,43,44, 48,52/02;6,14/03
17485	4	16/02	18473	7	4/03*	18763	9	20/02	22012	31	16,30,34/02;6/03
17489	19	43/02	18474	7	45/02*;7,10,15/03	18765	15	18*,25,45,50/02;12/03	22036	28	18,47/02
17495	2	43/02	18476	4	17,22,32,39/02;7,9/03	18766	7	25,45,50/02;12/03	22050	4	19/02;12/03
17503	4	43/02	18477	5	7/03	18768	4	N25,N45,N50/02;N12/03	22051	18	28/02
17513		N42,N43/02;N15/03	18480	29	2*,6,7/03	18769	2	N20/02	22052	6	28,46/02
17515	7	6,15,16/03	18484	10	28,40/02;15/03	18772	46	20,25,50/02;12/03	22080	3	20,32/02
17517	8	6,15,16/03	18485	15	2*,10/03	18773	38	18,20,23,25,50/02;10,12, 13/03	22082	4	17,19/02;13/03
17518	7	P44,48/02;16/03	18500	28	19*,22,32,39/02;12/03				22083	5	19/02
17519	13	16/03	18502	84	30*,32,39,42,49/02;9/03	18774	10	35/02*;10,16/03	22084	4	42/02
17520	2	N6,N16/03	18504	64	18,52/02;12/03	18775	2	N20/02	22090	2	30,32,43/02;4/03
17521		N15/03	18520	24	33,39/02	19002	9	N23,N25,N37,N51/02; N16/03	22100	3	20,32/02;12/03
17522		N15/03	18521	69	34*,39,49/02;4,10,12/03	19004	36	23,25,35,37,51/02	22101	19	16,20,32,43/02
17523		N15/03	18523	53	15,25,26,33/02;4,12/03	19007	16	51/02;16/03	22111	4	32/02
17524		N12,N15/03	18524	33	18*,26,28,31,33/02;4,6, 10/03	19008	4	16/03	22112	3	23,25,30,32,43/02
17525		N15/03	18525	33	15,28,31,33/02;4,9/03	19009	4	16/03	22113	8	23,25,30/02;12/03
17526		N15/03	18526	55	15,16,28,31,33/02;4/03	19010	17	45*,51/02	22114	5	16,32,42,43/02
17528		N43/02;N6,N12/03	18527	21	16,31/02	19013	16	25,51/02	22120	3	18,23,30,34,36,39,41,43, 52/02
17541	3	43/02	18528	10	52/02*	19320	16	23,27,35,37,51/02;5, 16/03	22121	9	17,23,30,34,36,44,52/02
17542	6	47/02	18529	10	52/02*				22124	2	17,34,52/02;6/03
17543	17	41/02	18531	20	26,31,34/02;9,10/03	19324	22	27,35/02;5/03	22125	1	18,36/02
17545	13	43,47/02	18532	20	10/03				22126	1	36/02
17546	22	42,43,47/02	18541	8	21/02*						
17548	28	16/03	18548	5	8/03*						
17549	6	47/02;15/03	18558	37	19*,39/02						
17550	4	15,42,43,P44,45,47,48, 52/02									

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
22130	2	44/02;14/03	23124	3	N30/02	24434	4	39/02	26210	2	24,36/02
22138	2	18,41,44,48/02;6/03	23125	4	30/02	24452	7	16,26/02	26229	11	17/02
22140	2	30,34,36,44/02	23126	6	N24/02*	24454	5	5/03	26230	12	17/02
22142	2	39,41,43/02	23127	4	N24/02*	24460	4	15,17,39,47/02;15/03	26240	7	23/02;9/03
22143	3	17,41,52/02;14/03	23128	4	N24/02*	24461	4	16/03	26244	3	9/03
22145	2	N41/02	23129	2	N24/02*	24462	5	15,47/02;16/03	26245	16	51/02;15/03
22160	2	30,34,39,41,48,52/02	23131	7	26,31/02;12/03	24463	6	24,39/02;12,15/03	26259	2	51/02
22170	3	30,39/02;6/03	23141	7	34/02	24465	6	15,23,33,47/02	26260	5	24/02
22172	8	48/02*;4,6/03	23142	10	8/03	24469	1	20,46,47/02;13/03	26261	27	8/03
22173	36	48/02*;6/03	23150	10	20,37,52/02	24470	4	28,39,47/02	26262	3	8/03
22180	2	30,34/02	23151	3	12/03	24471	8	28,47/02	26280	7	23/02
22181	16	17,27,39,41/02	23152	3	37/02;12/03	24480	1	17,25,27,41,44,45,49/02	26308	4	15/02
22182	6	30,34/02;14/03	23153	8	20,31/02;12,13/03	24482	2	24,49/02	26309	26	17/02;11/03
22183	3	20/02	24000	39	27,29/02	24483	2	20,24,49/02	26320	5	15,24,27,28,29,35/02;7,12/03
22190	2	30/02	24004	36	29,30/02	24484	3	24,49/02	26323	4	1/03
22205	2	16/02;12/03	24016	53	30,39/02	24490	3	24,31/02	26327	2	N41/02*
22221	20	20/02;12/03	24020	47	27/02	24491	3	31/02	26328	2	15/02
22222	1	4,12/03	24028	6	23,48/02	24492	20	31,46/02	27005	4	6,8,9/03
22225	2	12/03	24050	11	27,31,34,38,49/02	24501	3	17,27/02	27040	5	9/03
22233	29	13/03	24052	15	31,37,38/02;14/03	24502	6	46/02	27041	4	50/02
22250	2	42/02;12/03	24053	16	24/02	24504	7	17,41,45,46/02	27080	4	20/02;15/03
22251	11	12/03	24055	6	37,49/02;14/03	24508	2	18,19,41,45,46/02;15/03	27081	6	49/02
22259	4	20/02	24057	4	31,38,49/02	24509	2	17,45,50/02;15/03	27082	6	18,49,51/02
22264	2	20,42/02;13/03	24058	2	31,32,37,38/02	24510	2	17,18,19,41,45,46,50/02	27084	4	13/03
22275	3	20,42/02;12/03	24060	2	34/02	24512	3	25,29,44,46/02	27100	2	31/02;8/03
22281	9	12/03	24080	5	29/02	24513	18	46/02	27120	4	41,43,44/02
22282	17	19/02;12/03	24091	6	26/02;6/03	24517	2	18,19,46,49/02	27142	5	9/03
22283	3	N19/02;N12/03	24092	14	26/02;6/03	25001	7	17,19/02;15/03	27160	2	8,13/03
22284	7	N10/03	24100	5	27,29/02	25017	5	15/03	27161	4	8,13/03
22290	4	20/02	24101	3	37,41/02	25018	9	15/03	27163	21	49/02;8/03
22293	15	20/02	24102	3	37,41/02	25400	1	23,26,35,48/02	27183	8	1,9/03
22294	15	12/03	24110	3	27,29/02	25480	1	20,42,46/02	27186	8	1,9/03
22311	19	8/03	24130	14	24,29/02;5/03	25481	25	26/02	28004	1	20,23,45/02;8,9/03
22312	2	13/03	24140	18	32/02	25485	45	23,26/02	28006	1	8/03
22313	2	44/02;8/03	24141	4	5/03	25487	2	23,26/02	28050	3	28,34/02
22314	1	44/02	24142	43	5,6/03	25524	43	33/02;1,5/03	28110	2	15/02*
22331	2	N10/03	24149	1	32/02	25525	17	1,5/03	28150	3	8/03
22341	9	19,43/02;11/03	24150	27	27,29,30,32/02	25526	2	19,33/02	28162	29	28/02
22342	9	19/02	24151	4	29,32/02	25527	31	33/02	28164	17	28/02
22343	1	N19,N43/02;N10,N11/03	24152	2	30/02	25528	5	21,42/02	28190	2	41,43,45,46/02
22344	5	N42/02;N10/03	24153	6	30/02	25550	2	17,19,24/02	28196	4	41,43,45/02
22345	11	42/02	24156	2	22/02	25563	50	17,33/02;14/03	28197	4	45/02
22347	5	N19/02	24159	1	27/02	25565	7	33/02	28202	22	41,44/02
22351	1	N43/02;N12/03	24160	21	27,28/02	25566	27	17/02	28210	2	33,35,39,41/02
22352	6	12/03	24161	11	27,42/02;7/03	25567	16	19/02	28220	2	35,39/02
22361	2	N10/03	24162	9	22,27,42/02;6,7/03	25570	3	19,31/02;16/03	28221	18	33,37,39/02;5/03
22370	2	15/03	24164	6	27/02	25575	4	31/02	28223	4	35,39/02
22373	1	N50/02;N10/03	24170	14	5,6/03	25600	47	24/02	28260	30	35,37/02
22375	1	N19/02;N10,N15/03	24171	19	5,6/03	25601	34	17,19,20/02	28263	3	35,37/02
22377	1	N10,N13/03	24172	4	5,6/03	25607	4	24,39/02	28264	3	35,37/02
22379	1	N50/02;N10/03	24180	15	8/03	25608	21	17/02;16/03	28265	3	37/02
22381	1	N19,N43/02	24211	7	24/02	25609	5	30/02	28281	32	36/02
22395	2	19,42/02;15/03	24220	14	27,28/02	25613	2	30/02	28282	2	35/02
22403	1	N45/02	24222	3	27/02	25640	40	28/02*;15/03	28300	1	23,39,50/02
22404	15	46/02	24223	33	18/02	25641	26	30/02	28302	16	31,33,39,40/02;12/03
22406	1	N1/03	24230	20	18,30/02	25644	12	42/02	28310	2	23,31,33,35,39/02
22407	1	N4,N11/03	24233	15	36,43/02	25645	17	15/02*	28320	6	33/02
22408	1	N10/03	24234	3	30/02	25646	7	N42/02	28321	36	29/02
22409	4	N45/02;N10/03	24240	5	30,39/02;7/03	25649	18	18,30,35/02;4/03	28323	2	27,29/02
22410	32	43,44,46/02	24250	5	30,39/02;7/03	25650	33	22*,30/02	28325	2	27,29/02;5/03
22413	1	N45/02	24251	23	24,34,43/02;6/03	25653	13	8/03*	28330	2	27/02
22417	1	N10/03	24252	5	30,39,43/02;6/03	25663	27	19/02*	29015	5	22/02;16/03
22418	2	24,36,44,46/02	24260	5	34/02	25667	20	15/03	29121	5	32/02
22420	2	4,11,15/03	24270	3	24,27/02	25668	18	15*,16,48/02;13/03	29122	5	32/02
22421	4	N43,N44,N46/02;N11/03	24290	3	36,43/02	25670	41	26,38,48,49/02;4,5,13/03	29142	3	7/03
22423	3	N11/03	24291	4	36/02	25671	17	15/03	35000	26	23,24,47,48/02;14/03
22425	2	44,46/02	24292	4	36/02	25673	15	28,42/02	35008	21	45,48,50/02;5/03
22427	1	N43,N44,N46,N50/02;	24293	6	32,36/02	25677	19	21,52/02	35009	19	15,40,41,45/02;5,10,14/03
		N11/03	24294	22	36/02	25681	15	4/03	35011	2	48/02;1/03
22429		N24,N46/02;N10,N14/03	24311	4	27/02	25683	17	30,49,52/02;5/03	35016	17	29/02
22433	3	39,47/02;11,14/03	24312	4	27/02	25687	11	15,35/02	35031	3	22/02
22436	2	39/02;10,14/03	24320	4	27,28,34,43/02;6/03	25700	3	15/03	35036	21	17,19,24,30,36/02;10,15/03
22471	31	18,44/02	24321	3	6/03	25720	3	33/02	35040	18	21,45/02;4,8,10,14/03
22481	35	43,44/02	24322	6	28,34/02;6/03	25800	3	24,36/02	35041	8	21,35/02;4/03
22482	16	44,50/02	24350	2	31,51/02	25841	9	24,36/02	35042	9	21,27,44/02;4,14/03
22521	3	12/03	24355	2	51/02	25848	25	5,13,15/03	35044	9	38/02
22523	3	12/03	24370	1	34/02	25849	13	42/02;12/03	35047	5	35/02
22529	3	12/03	24375	2	34/02	26001	4	9/03	35060	14	18,22,40,41/02;10,14/03
22531	2	12/03	24380	2	35/02	26050	1	34/02	35080	16	18,22,40/02
23000	5	18/02	24388	2	35/02	26060	1	49/02	35084	15	50/02
23010	4	27,38/02	24404	8	21,26,35,44,48/02	26081	8	46/02;16/03	35086	5	31/02
23023	4	27/02	24405	10	26,35,36,44,48/02	26083	14	29/02	35088	2	50/02
23030	6	27,38/02	24406	30	20,26/02;2/03	26122	29	13/03	35099	3	41/02
23115	3	27/02	24408	21	36,44,48/02	26127	21	49/02;5/03	35100	14	40,45/02;5/03
23121	7	30/02	24410	2	21,44/02	26128	50	49/02;5/03			
23122	8	23,30,33/02	24430	5	39/02;8,11/03	26129	11	26/02			
23123	3	30/02	24431	14	39/02	26142	10	24,33/02			

## SECTION I

NM 16/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
35101	6	41/02	37000	22	23,28,47,48/02;14/03	37200	15	18/02	43079	2	41/02
35103	5	41/02	37005	16	17,18,23,41,45,47/02;5,12,13,15/03	37202	2	18/02	43082	5	41/02
35120	13	40,45,47/02;5/03				37205	2	39/02	43101	3	46/02
35130	3	48,51/02;5/03	37010	23	15,16,17,18,23,26,41,45,47/02;10,12,13,15/03	37221	13	15,16,17,18,20,21,24,25,27,28,34,36/02;6,10,11,12,13,14,15/03	43102	4	46/02
35135	1	5/03							43104	4	46/02
35136	2	48,51/02	37025	26	38,51/02;1/03				43106	6	44/02
35141	11	34/02	37032	2	1,6/03	37222	13	15,27,28/02	43140	4	17,41,48,52/02;12/03
35143	7	34/02	37033	2	47/02	37223	14	26,42/02	43141	5	52/02;12/03
35144	3	11/03	37034	2	8,14/03	37224	11	15/02	43142	4	52/02;12/03
35150	3	48/02	37041	15	17,20,27,50/02	37226	17	15,16,17,19,20,21,25,28,30,39/02;8,9,12,14/03	43143	4	12/03
35159	3	25/02	37042	5	17,41,45/02				43144	4	17/02;6,12/03
35163	7	25,44/02	37043	17	17,20,43/02	37228	14	21,24,27/02;8,14/03	43145	4	17/02;12/03
35166	4	35/02	37044	16	45/02	37229	15	15,16,17/02;8/03	43146	2	48/02
35167	3	35/02	37045	11	45/02	37230	14	16,18,24,25,39/02	43150	2	N17/02
35169	2	35/02	37046	18	21,31,43/02	37231	18	15,20,21,25,28,30/02;6,10,12,14/03	43160	6	17/02
35200	7	48,51/02;5/03	37050	9	18,26,42,46/02;10,12/03				43161	2	17,41,44/02
35210	3	29/02	37060	3	17,21,31,46,50/02;9,13/03	37232	12	15,16,21/02	43163	3	44/02
35230	3	29/02				37234	13	15,20/02;7,8/03	43164	3	17,48/02;6/03
35236	2	38,50/02	37061	15	36,38/02;5/03	37235	11	15/02	43180	5	9/03
35246	2	38,43/02	37063	21	16,21,28,36,50/02	37241	17	16,17,26/02	43182	4	47,52/02
35247	4	50/02	37064	8	17/02*	37242	10	15,20/02	43223	4	41/02
35255	3	50/02;14/03	37065	7	19/02*	37244	11	16,17,26/02	43225	4	17,52/02
35256	2	14/03	37075	3	21,31/02;5/03	37246	14	15/02	43240	4	50,51/02
35270	2	38,46/02	37079	5	22/02	37248	18	39/02	43242	4	52/02
35276	3	46/02	37080	3	17,24,27,30,33,34,38,40,42,44,45,46,51/02;1,4,7,9,14,15/03	37258	4	15/02;1,11/03	43243	4	50,51/02
35277	3	38,46/02				37261	10	15,28/02;1,7,11/03	43248	3	9/03
35279	3	38/02				37262	20	1,11/03	43263	7	44/02
35295	3	27/02	37081	23	18,20,21,28,38,43,50/02	37264	3	30/02;1,15/03	43265	2	44,52/02
35298	7	27/02	37082	9	28,44,50/02;11/03	37265	3	18,24/02;1,7/03	43270	2	44/02
35299	9	13/03	37083	8	20,22/02	37281	15	30/02;1,15/03	43280	5	44/02
35303	7	40/02	37084	9	20,22,38,40,43/02	37320	16	18,26,27,28,38,44/02;9,10,11,P12,15/03	43281	6	20/02*
35308	5	10/03	37085	8	38,40/02				43284	4	16,51/02
35310	2	22/02	37086	8	38,50/02;4/03	37325	8	18,34,39,47/02;15/03	43285	5	15,16,44/02
35330	2	22,38,41/02	37087	7	38,40/02	37326	2	34,47,51/02;15/03	43300	5	15,44,47,50/02
35350	2	38,41/02	37088	9	5/03	37328	2	18,42,44/02;11,15/03	43301	4	15,45,50/02
35400	11	30/02	37089	12	21,28/02;4,13/03	37330	2	22,24,26,30,32,34,38,40,46/02;9,13,14/03	43302	4	44,47,50/02
35402	3	38/02	37090	8	27,32,45,51/02;1,7,9,14,16/03	37342	3	17,32/02;2,11,15/03	43303	4	41,47,50,51/02
35420	13	24,30/02				37343	10	45/02	43304	2	44,47,50/02
35421	14	31/02	37095	3	15,17,18,24,28,32/02;1,7,9,11,14,15,16/03	37344	11	17,32,34/02	43321	6	30,41,47/02
35423	6	31/02				37360	15	15,17,27,28,30,32,34,43/02;2,9,10,11,15/03	43323	4	30/02
35424	3	30/02	37101	9	15,18,27/02				43324	4	30/02
36005	2	15,17,24,27,28,34,36,38,45,46/02;P12,14/03	37103	9	15,27,29/02	37362	6	17,31,43,48,51/02;1,2,4/03	43341	7	41/02;12/03
36010	27	16,19,20,22,24,38/02;5,15,16/03	37104	3	41/02				43345	4	1/03
36015	2	17,24,27,36,46/02	37110	11	15,17,18,19,24,27,28,29,47/02	37363	8	48/02;4/03	43360	21	17,28/02;6,10,13/03
36040	16	19,30/02;1,15/03	37112	1	47/02	37367	1	38,49/02	43363	5	45/02
36046	5	38/02	37115	2	15,17,18,19,27,28,29,33,47/02;7/03	37380	2	15,17,34,40,42,43,44,48,51/02;9,10/03	43364	5	45,46/02
36060	17	16,19,31,38/02;5,8/03	37119	2	43/02	37400	10	15,28,34,38,40,41,44,46/02;6,10/03	43371	13	22/02
36061	5	46/02	37120	2	15,19,24,27,29,39,42,49,51/02;4,6/03	37401	9	28,32,44/02;4,6,13,14,16/03	43372	4	22/02
36062	11	40*,46/02				37402	7	28,32,41,42,44,50/02;4,13,14/03	43373	8	45/02
36098	6	5/03	37121	11	15,24,27,29,31/02				43374	1	22/02
36102	6	13/03	37122	12	48/02	37402	7	28,32,41,42,44,50/02;4,13,14/03	43375	7	46/02;6,7,10,12,16/03
36103	9	13/03	37123	9	19,49/02;6/03	37403	23	24/02;10/03	43384	1	48/02;4,5,6,7,10,11,12,13,15,16/03
36104	6	13/03	37125	15	15,19,24,42,49/02;6,9/03	37420	1	34,43/02;1,7/03	44001	2	48,49/02;1,6,7,8,9,11,13,14/03
36106	7	18,47/02;5,13/03	37126	8	15,41/02	37421	8	14/03	44015	8	28,31,48,49/02;6,7,8,9,10,11,13,14/03
36117	6	18/02	37127	11	49/02;4,6/03	37423	5	14/03	44030	7	20,46/02;4,8,9,13/03
36118	3	5/03	37129	6	39,42,49/02;4,6/03	37441	4	15/02	44036	5	28/02;13,16/03
36120	9	16,19,20,22,31,46/02;5,8,16/03	37133	4	44/02	37445	1	48/02;1/03	44037	5	16/03
			37134	5	38/02	37446	2	1/03	44038	5	18/02
36122	12	16,19,21/02	37136	6	38,46,50,51/02	37461	9	51/02;6/03	44040	23	28,44/02;6,10,13,16/03
36123	25	16,19,21,46/02;11,16/03	37137	6	46,48/02	37463	6	1/03	44041	7	48/02;1,9,10,13,16/03
36124	18	16/03	37139	8	18,23/02;1/03	37478	7	47,48/02;6,7,14/03	44042	7	21,44,45,49/02;4,7,9,10,11/03
36125	7	4/03	37140	33	15,17,19,21,22,24,27,29,31,35,49,51/02;4,6,16/03	37501	3	46,47/02;7,8/03	44043	8	44/02;1,6,9,10,11,13,16/03
36137	4	38/02				37505	2	46/02;7/03	44044	6	6,10,13,16/03
36138	3	39/02;4/03	37141	29	20,21,23,36,40,48,51/02;1,4,12/03	37506	4	45,46,47,51/02;8/03	44046	10	18/02
36139	4	4/03				38030	1	20,21/02	44047	22	26,44/02;10,12/03
36140	12	21,22,24,36,41/02;4,10/03	37145	23	46,50/02;4/03	38460	7	18/02	44048	11	5,12/03
			37147	15	21,35,36,40/02;1,10,12,16/03	38463	2	N18/02	44049	9	18,44,46,50/02;8,14/03
36141	7	4/03				38480	6	18/02	44050	21	18/02
36142	6	24/02	37148	13	17,21,35,38/02;4,10,11/03	38603	2	17,21/02	44051	1	44,48,50/02;1,11,14/03
36143	4	18,34/02;5/03				38610	1	20/02	44057	5	21,25/02
36161	10	20,24,34,44,45,47,50/02;4,10/03	37149	10	44/02	41000	2	15/03	44061	21	18,21/02
36162	10	20,35,45,47,50/02;4/03	37150	8	16,21,22,31/02;14/03	41060	3	34/02	44063	8	21/02
36163	13	20,31,34,35,38,44,45,47,50/02;4/03	37161	14	18,21,22,31,34,43/02;1,14/03	42600	5	14/03	44065	7	15,16,20,25,30,42/02;16/03
36164	7	34,38,44,46/02;8,15/03				42620	5	14/03	44066	10	16,20,27,39/02
36165	6	17,18,20,22,24,28,36,44/02;10/03	37162	12	15,16,17,26/02	42740	5	34,41/02;6/03	44067	22	16,21,25,29/02;16/03
			37164	4	15/02	42742	3	6,8/03	44068	11	17,18,20,24,26,44/02;10,11,13/03
36167	2	24,40/02	37165	2	15,17,18,20,21,34,36/02;10,12,13,15/03	42760	5	8/03	44069	16	16,18,20,21,24,29,31/02;11,13/03
36173	1	40/02				43000	4	9/03	44072	4	21/02
36180	23	17,20,21,22,36,40,50/02;4/03	37166	2	15,16,17,26/02;14/03	43015	12	9/03			
			37170	11	38/02;14/03	43030	24	25,28/02;2,9,10,11,12,13,15/03			
36181	18	17,20,21,22,36,40,50/02;4/03	37175	2	5/03						
			37180	20	21,38/02						
36182	6	20,36,40/02	37182	14	35,47,48/02						
			37183	9	48,51/02;10/03						
			37184	8	48/02;5/03						
						43059	3	44/02			
						43060	4	44/02			

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
44073	2	21/02	44444	6	31/02;9,12/03	52144	5	50/02;3,7,8,10,14,16/03	53283	4	33,52/02
44075	4	16,17,21,29,31,42/02; 13/03	44461	10	16,17,19,28/02;6,10/03	52161	14	6,11,14/03	53284	4	33,40/02;7/03
44076	3	18,25/02	44462	4	19/02	52164	2	14/03	53285	4	35/02;7,15/03
44081	9	15,16,17,20,24,25,39/02; 9,13/03	44465	2	16,17,19,28/02;6/03	52170	3	14,16/03	53287	6	20,27,35,42/02;1,5,7,8, 10,15/03
44082	11	15,16,17,18,21,24,25/02; 9/03	44481	2	26,28,31/02	52172	2	40/02;1/03	53290	1	35/02
44083	8	15,21/02;9,11/03	51007	22	38/02;7/03	52180	14	21,24,42,43,51/02;1,8,10, 13,15,16/03	53301	4	27/02
44084	1	6,11/03	51017	31	37/02	52200	8	7/03	53302	4	51/02
44085	2	21,25/02	51022	11	37/02	53011	2	51/02	53303	6	49,51/02
44100	7	15,16,17,18,24,25,26, 44/02;2,9,11,12,13/03	51061	14	1,7,15/03	53031	1	17,18,19,21,22,27,28,30, 39,48/02;5,12,14/03	53306	2	21,39/02
44105	2	49/02;5,6,8/03	51062	28	15/03	53058	2	4/03	53311	3	39/02
44120	7	15,16,17,18,21,26,27,28, 29,31/02;2,9,10,15/03	51064	2	52/02;1/03	53060	14	15,17,18,19,21,22,27,28, 30,32,51/02;4,5,9,10,12, 14/03	54040	3	37/02;6,10/03
44140	8	16,26,27,28,29,31,50/02; 1,6/03	51081	10	5,6,13,15/03	53061	10	19,28,30,44,47/02;12, 16/03	54041	7	18,35/02;4,8,16/03
44160	7	46/02;1,4,5,6,11,13,14, 15/03	51082	7	5,7,13,15/03	53062	13	1,14,16/03	54043	2	15,17,18,29/02
44161	2	29,50/02;1,2,6,10/03	51100	7	1,6,7,8,9,14/03	53063	8	19,28,44,47/02;4/03	54060	5	18,37/02;16/03
44162	1	50/02;1/03	51103	10	29*,33,45/02	53064	6	33/02;10/03	54061	11	52/02
44163	1	48/02	51104	1	29*,33,45/02	53065	2	33/02	54063	3	1,13/03
44164	1	46,48/02;1,11/03	51120	6	6/03	53066	2	33/02	54081	3	10/03
44165	1	46/02;1,5,6,11/03	51142	2	6,13,15/03	53081	8	15,21,30/02;4,5,11,16/03	54083	4	19/02
44178	2	21/02;2,5,7,10,16/03	51143	4	6/03	53082	13	40/02	54085	2	18,19,40/02;15/03
44179	2	10,16/03	51144	3	52/02;1,15/03	53083	8	18,19/02;9,10/03	54090	3	46/02*;11,15/03
44180	6	18,20,24,29,34,45,46/02; 1,2,5,7,8,9/03	51145	2	42/02;13/03	53084	6	17,18,24,51/02;14,16/03	54095	3	46/02*;8,15/03
44181	5	5,10,13/03	51146	3	42,52/02;5/03	53086	8	20,46,48/02	54105	3	46/02*;8,13/03
44182	4	21,48,49/02;1,2,15/03	51150	1	50,51/02;1,13,15/03	53087	9	48/02	54115	3	46/02*;15/03
44183	6	48/02;1,6,8,9,10/03	51151	3	50,51/02;13,15/03	53088	7	33/02	54120	5	15,16,17,18,19,20,37,39, 41/02;15/03
44184	9	21,45,49/02;2,10,13/03	51155	1	50,51/02;1,15/03	53089	6	17,24,51/02;14,16/03	54125	3	46/02*;15/03
44185	7	45,49/02;1,2,10/03	51158	2	6/03	53086	8	20,46,48/02	54140	7	15,16,17,18,41/02;15/03
44186	2	21,45,46,48/02;1,2,5,8,9, 10,15,16/03	51159	3	47/02	53087	9	48/02	54151	1	15/02;3/03
44187	2	21/02;5,6,9,13/03	51160	20	48,50,51/02;1,4,5,6,7,14, 15/03	53088	7	33/02	54161	12	16,17,19/02;10/03
44192	1	21,29,46,48/02;1/03	51163	4	4/03	53090	1	41/02	54165	2	33,37/02
44193	1	26/02;1,7,15/03	51164	18	38,45,46,50/02;2,4,8/03	53093	2	20/02	54166	3	10/03
44200	9	20,24,29,34,52/02;4,9,12, 13/03	51165	8	25,45,50/02;2,4,8,10,14, 16/03	53100	16	18,19,21,24,28,33,39,42, 51/02;6,10,13/03	54167	2	17,19/02
44203	1	20,24,33,48/02;2,5,15/03	51166	3	N25,N45/02	53101	7	33/02;8,13,16/03	54168	1	37/02;10/03
44204	1	48,52/02;2,4,5,7,12, 13/03	51167	6	45,50/02;2,4,8,10,16/03	53102	2	20,35,42/02	54169	3	16,37/02
44205	2	48,52/02;2,5,7,12,15/03	51168	2	45,46,50/02;2,4,8/03	53105	20	37/02;8/03	54180	6	19,41,43,50/02;5/03
44206	1	46/02;4,5,13,16/03	51180	5	13,16/03	53106	6	19*,20,24/02	54195	2	5/03
44207	1	4,5/03	51200	4	14/03	53107	16	35/02;6/03	54200	4	21/02;5,8/03
44220	5	46/02;4,5,13,16/03	51220	8	33/02	53110	1	29,40/02;10,15/03	54201	6	21/02;8/03
44223	1	6,13/03	51222	6	51/02;16/03	53111	3	31,44/02*	54222	4	21,43/02
44224	1	49/02;5/03	51225	3	27/02	53120	14	18,20,21,27,28,39,42/02; 5,6,7,13/03	54223	2	21/02;8/03
44240	8	49,50/02;4,7,13,14,15, 16/03	51240	2	33/02	53122	3	20,29,40/02;7,8,16/03	54224	2	21/02;8/03
44243	2	25/02;5/03	51260	4	37,50/02;16/03	53123	3	7/03	54225	2	21/02
44260	7	29/02;2,5,6,13/03	51261	23	5,6,13,15/03	53125	2	46,51/02;13/03	54226	2	50/02
44280	9	29,34,49,50/02;2,6,12, 15/03	51263	23	49/02;13/03	53130	1	27,42,47/02;10,13/03	54227	2	50/02
44281	2	49/02;12,15/03	51300	4	27/02	53133	3	41,46/02;16/03	54266	2	13/03
44282	1	49,50/02;13/03	51342	3	1/03	53135	2	20,51/02;7/03	54279	4	50/02*;2,15/03
44283	2	50/02;8/03	51344	2	5,7,16/03	53141	5	20,24,34,51,52/02	54280	10	15,20/02;5,15/03
44284	2	41/02;6/03	51380	5	47/02	53147	3	36,39,42,51/02;6,7,10, 13/03	54281	6	20/02
44285	1	2,15/03	51559	3	41/02	53149	2	31/02	54282	1	51/02
44286	1	2/03	52031	1	6/03	53160	14	20,51/02;3,6/03	54283	5	19,20,52/02
44310	5	20,29,41,42/02;7/03	52039	4	5*,7,8,9,13,14/03	53161	8	51/02;3,8,13/03	54284	1	51/02;15/03
44313	1	27,41,47/02	52040	17	43,50/02;13,16/03	53162	7	50/02*;15/03	54286	4	19/02
44319	2	21,41,42/02;4,6,9,10/03	52043	21	46/02;6,7/03	53164	9	20,37,51/02	54287	7	5,15/03
44320	4	23,29/02;6,8,9,15/03	52045	6	36/02	53165	13	39/02;8/03	54288	5	1/03
44321	6	19,22,23,29,32,40/02;6, 8/03	52047	11	7,8/03	53180	10	33,34,43,51/02;1,3,6,7, 13,15/03	54289	8	19/02;1/03
44340	11	16,20,21,37/02;4,6,8,9, 15/03	52048	3	8/03	53181	4	34/02;1,13/03	54300	12	31/02
44341	7	25,37,41/02;7,9/03	52051	1	43/02	53182	4	36/02;15,16/03	54302	1	31/02
44342	8	37,41/02;6/03	52052	1	43/02	53183	13	19*,35/02	54303	3	19/02;1,14/03
44352	2	4,6,7,8,12,15/03	52054	1	14/03	53184	5	32,35/02;1,6,13/03	54320	4	20,48/02;1/03
44360	9	16,20,21,34,37,41,42/02; 4,9,10/03	52055	1	14/03	53200	6	33,36,43/02;5,6,7,15, 16/03	54322	7	19,20/02;1/03
44361	6	21,27/02;4,10,15/03	52060	16	43,50,51/02;7,12/03	53201	6	51/02	54324	8	19/02
44365	1	7,8/03	52062	7	7,12/03	53202	6	15/03	54327	4	20,31/02
44366	1	34,41/02	52066	3	50/02;14,16/03	53203	11	5/03	54329	4	5/03
44367	2	15,16,18,20,22,25,26,29, 35,37,40/02;6/03	52080	14	50,51/02;4,7,10,11,12, 14/03	53204	10	44/02;5/03	54330	3	5/03
44400	4	48/02;4,6,7,8,9,12,15/03	52082	3	45,46,48/02;11,12/03	53205	3	5/03	54333	3	19,31/02
44401	7	10,12/03	52083	2	45,46,51/02;1,16/03	53206	6	17/02;5/03	54339	8	17,31/02;12/03
44410	4	4,6,11,12,13,14,15/03	52084	2	45/02;4,10,11,12,14/03	53220	6	36,43,51/02;5,16/03	54340	8	19,48,51/02;3,4/03
44420	6	36,49/02;8,9,10,11,12, 14/03	52085	3	50,51/02;4,11,16/03	53223	5	29/02	54343	10	19,48/02;4,5,11,12,13/03
44430	2	16,17,28/02;6,10,11, 14/03	52086	2	45,50,51/02;1,4,9,11, 14/03	53226	3	3/03*	54344	6	19,48/02
			52087	1	51/02	53242	12	52/02;1,13/03	54346	8	19/02;11,12,13/03
			52088	2	45/02;4,10,11,12,14/03	53244	2	1/03	54347	4	51/02
			52092	1	46,51/02;16/03	53262	7	22,42/02	54350	4	51/02
			52120	12	32,51/02;6,11,16/03	53263	1	37/02	54351	7	52/02
			52121	8	45,46/02;1,6,8,11,16/03	53265	6	19,35,41,46,52/02;15, 16/03	54352	3	52/02;1,3/03
			52122	14	45/02;11,14/03	53266	4	1,8,13/03	54360	12	15,19,20,52/02
			52124	1	51/02	53268	4	22,42/02;7/03	54362	3	52/02
			52125	1	45,46/02;8,11,16/03	53269	5	19/02	54363	3	15,19,20/02
			52140	6	48,50/02;3,12/03	53279	3	7,15/03	54364	2	52/02
			52141	5	48/02	53281	4	31,40,52/02;15/03	54365	6	15,19,36/02;11/03
			52142	2	12/03	53282	8	40/02	54366	3	15/02

## SECTION I

NM 16/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
54386	10	42/02;16/03	57029	9	12/03	61650	3	17/02;12/03	62521	3	N15,N17,N20,N30,N31,N37,N43,N49/02;N10,N13/03
54387	7	23,42/02;16/03	57035	10	10,12/03	62000	20	18,46/02	62530	5	31,33,43/02;8,13/03
54389	8	43,52/02	57063	5	40,41/02	62001	5	11/03*	62531	3	N31,N33,N43/02;N8,N13/03
54400	8	20,32,43/02;3,16/03	57064	3	41/02	62024	13	38,40/02	62540	6	17*,18,21,23,25,26,29,31,32,34,40,45,48,50,52/02;8,12/03
54402	4	52/02	57101	18	41/02	62028	15	18/02;10/03	62541	3	N17*,N18,N21,N23,N25,N26,N29,N31,N32,N34,N40,N45,N48,N50,N52/02;N8,N12/03
54403	4	22,43,52/02	57103	2	16/03	62032	16	11/03*	62550	3	16/03*
54404	4	19/02	57120	13	43/02	62033	3	N11/03*	62560	4	16/03*
54407	4	32,43/02;3,7,16/03	57140	10	43/02	62046	2	39/02	62570	4	17*,21,23,25,26,31,32,33,34,36,40,45,48/02;8,12/03
54409	2	23,32/02;7,8,12/03	57141	14	43/02	62050	6	18,44/02	62580	3	23,26,32,33,45/02;12/03
54413	3	31/02	57142	6	43/02	62092	7	41/02	62590	2	16,28,29,36,40,46,48/02;8,12/03
54418	4	32,43/02;3,7,16/03	57160	10	43/02	62093	7	16,41,49/02	62591	3	N16,N28,N29,N36,N46,N48/02;N8,N12/03
54419	2	3/03	57161	4	31/02	62095	3	11/03*	63000	13	27,28,48/02
54421	6	28,47/02	57162	7	43/02	62140	1	34,40/02	63005	18	15,25,31/02;16/03
54422	4	19/02*	57164	2	43/02	62142	10	24,28/02	63010	14	26,29,31,52/02
54423	5	48/02*	57165	1	43/02	62143	3	24,28/02	63015	11	31,38,40,52/02;9/03
54430	1	26,28,37,43/02	57170	1	43/02	62144	3	24/02	63020	15	27,31/02;4,9,11/03
54440	4	30,41/02	57200	6	11/03	62170	2	38/02	63040	2	46/02
54441	6	30,42/02;2/03	57220	4	11/03	62171	4	38,47/02	63050	2	17,46/02
54480	8	22,30,36,41/02;2/03	57381	12	52/02;15,16/03	62191	15	11*,15/03	63054	3	19*,31/02
54481	8	22,30,36/02	57400	4	12/03	62193	17	17*,19,31/02	63055	2	29/02
55001	4	18,29,36,37,42/02;14,15/03	57408	2	12/03	62194	8	17*,18,19,31,36/02;4/03	63060	7	25,28,32/02
55040	4	15,18,23,27,28,31,32,39,41/02;16/03	57420	3	12/03	62195	6	22,36,41/02;1/03	63062	7	18,28,29/02;7,16/03
55041	7	15,22,32/02	57460	4	10,12/03	62225	3	17*,37/02	63063	9	27,29/02
55042	1	18,21,27,28,42/02	57471	3	12,15/03	62241	10	9/03	63065	6	18/02
55043	2	21,23,27,28,37,39,42/02	57472	2	12/03	62242	11	47/02;9/03	63070	3	20,27,28,29/02;16/03
55044	5	22,23,41,43/02;16/03	57480	8	12,15/03	62250	4	34,38/02	63080	5	26,27,28,31,48/02
55045	2	18,21,23,41/02	57484	19	15/03	62270	4	37,41/02	63090	8	25,31/02;15/03
55046	4	21,22,23,26,27,30,31,37,38,39,41,48/02	61000	20	10,15/03	62271	5	37,41/02;10/03	63091	4	26,27,32,39,48,52/02;9/03
55047	8	22,23,26,27/02	61015	8	17/02	62285	2	26/02	63100	2	15,44/02
55048	12	23,27,32,36,37,39,41,48/02	61018	4	18,24/02	62290	3	26,37,41/02;10/03	63102	15	17,19/02;15/03
55049	6	22,27,30,41,43/02	61020	2	17,28/02	62292	2	24/02	63103	17	17,26,29/02;15,16/03
55060	7	19,20,36,37/02	61021	3	18/02	62302	2	4/03	63110	4	40/02;16/03
55063	1	6/03	61036	8	27/02;7/03	62310	2	27/02	63111	9	17,25,48/02;9/03
55064	3	23,37,48/02;6/03	61040	6	10/03	62313	4	17*,27/02	63120	2	44,48,52/02;8/03
55082	9	5/03	61050	4	10,15/03	62330	2	38,40/02	63121	5	48/02;5,8/03
55084	7	39/02	61051	7	15/03	62340	3	38/02	63150	1	15,25,31/02
55085	9	5/03	61060	5	12/03	62343	3	8/03	63200	5	52/02
55100	8	29,36,37/02;6/03	61061	9	10,12,15/03	62350	3	10/03	63201	9	40/02
55101	4	7/03	61070	4	9/03	62355	6	8/03	63210	3	45,52/02;16/03
55102	3	24/02;4,5,15/03	61080	4	9/03	62360	5	18,38/02;12/03	63220	5	26,45,52/02
55103	2	24,29,48/02;1,4,5,7,15/03	61090	5	12/03	62361	2	N18,N38/02;N12/03	63230	6	17*,45/02
55104	2	48/02;4,5,7,14/03	61091	5	12/03	62366	3	38,40/02;2/03	63231	8	31,45/02
55105	7	18,29,36,41,42/02;14,15/03	61100	4	10,12/03	62392	7	18/02	63232	3	45/02
55110	2	23,24,29,37/02;6/03	61110	3	28/02	62393	7	34,37,50/02	63233	15	31/02
55120	2	36/02;6,14/03	61112	10	17/02	62394	10	34,37,50/02	63250	6	29,40/02;11/03
55127	2	10,14/03	61120	4	28/02	62395	2	34,50/02	63271	8	19,52/02;8/03
55128	2	26,33,36,38/02;1,4,5,8,14/03	61130	3	28/02	62400	17	23,24,33/02;4,9/03	63290	7	19,31,32,38/02;10/03
55129	7	33,36,37/02;6,15/03	61140	5	27/02	62401	9	6,10/03	63291	9	19,33/02;16/03
55130	2	27,45/02;5,14/03	61141	6	38/02	62402	10	10/03*	63310	5	11/03
55131	1	27,36,45/02;6/03	61142	6	38/02;7/03	62404	3	6/03	63320	8	30/02
55133	3	5,14/03	61170	5	27/02	62406	2	24,33/02	63321	6	30,42/02;9/03
55139	5	41/02	61180	4	20,27/02	62408	7	15/02;10/03	63322	2	30/02;9/03
55140	2	1,5,14/03	61190	4	39,41/02	62409	6	7/03	63330	9	27,39/02;4/03
55150	2	24,28,29,37/02;15/03	61200	7	17,21/02	62411	1	52/02	63337	15	27,31,39/02;4/03
55160	2	18,24,28,29,42/02	61204	5	13/03	62417	1	52/02	63400	1	39/02;8,11/03
55161	1	29/02	61210	6	17/02	62419	6	33/02;8/03	63410	6	39/02;8,9/03
55170	2	18,29,31,36,41/02	61220	5	17/02	62420	5	33,37,39/02;8/03	63413	5	39/02
55175	1	24,28/02	61250	4	18/02	62429	9	17,27,39,43/02	63417	2	39/02
55180	2	33/02;1,15/03	61300	2	7/03	62431	8	26*,27,37/02	63420	2	39,45/02;8/03
55190	2	6/03	61310	2	33/02;7/03	62432	16	13/03*	63424	2	45/02
55200	2	27/02;8,10/03	61311	5	17,33/02	62433	12	15,30,31,34,45/02;1/03	71005	1	34/02;2,6,12,13,16/03
56031	1	1,2/03	61312	3	17,33/02	62434	9	40,46,52/02;8,12/03	71006	5	39/02
56042	6	22/02	61331	4	7/03	62437	9	32,46/02	71009	3	39,46,48/02;1,6,7/03
56043	6	22/02	61400	2	27/02;7/03	62439	4	1/03	71012	3	19,33,39,46/02;1/03
56044	3	22,38/02	61410	2	7/03	62440	8	16/03*	71018	10	15,33,35,37/02;7,12,13,15/03
56060	8	33/02;12,16/03	61430	2	7/03	62441	10	16,36/02	71027	9	15,19,20,22,24,25,34,38,45,49/02;2,4,5,14/03
56063	1	21/02;16/03	61433	1	7/03	62448	2	23/02	71033	31	15,23,37,38,49/02;3,12,14,15/03
56064	6	38/02;2,16/03	61434	2	7/03	62449	4	15/02	71036	8	35,44/02;12,14/03
56065	3	33,38/02;16/03	61440	2	15/02	62451	7	21,23/02	71040	5	27,34,42/02;7/03
56067	3	48/02*	61450	2	17,27/02	62453	4	16/03*	71042	1	34/02
56081	19	41/02	61470	2	15/02	62455	7	17,27,39,43/02			
56083	2	31/02	61472	1	15,20/02	62456	1	27/02			
56100	13	41,49,50/02;1/03	61500	2	17/02	62457	6	11/03*			
56101	6	33/02;1/03	61510	2	15/02	62459	2	6/03			
56102	23	1/03	61520	2	15/02	62460	4	24,31,33/02;10/03			
56103	6	18,30/02;1/03	61522	1	15/02	62464	2	15*,31,49,50/02;4/03			
56104	2	41,49,50/02	61538	1	15/02	62480	2	16/03*			
56120	12	1/03	61540	2	15,20/02	62490	2	16/03*			
56191	2	18/02	61550	2	17/02	62498	4	23,25,27,31/02;4,9/03			
56195	3	22/02*	61560	2	15/02;7/03	62499	4	15*,25,27,31,49,50/02;4,9/03			
			61562	2	6/03						
			61581	5	18/02						
			61582	4	18/02						
			61610	7	28,29/02						
			61611	11	28/02						
			61612	4	28/02						
						62510	3	11*,12/03			
						62512	3	N11*,N12/03			
						62515	2	26,45/02			
						62520	5	15,17,20,30,31,37,43,49/02;10,13/03			

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
71043	2	25/02*	72100	7	29/02;7/03	74200	8	18,21,27,28,37,46/02;1,8/03	74581	9	20,26,32,34,36,40,41,43,45/02
71044	1	27/02	72103	2	29/02;4,6,7/03	74201	9	27/02	74582	9	18,26,28,40/02
71058	2	23,36/02	72105	2	36,38/02;7,11/03	74202	3	16,21,24/02;1,7/03	74583	15	26,32,34,40,43,44,48/02
71059	1	23,36/02	72107	2	15,27,29/02;7/03	74204	5	21,24,27,37/02;1,7,8/03	74584	5	18,22,25,32,34,41,43,45/02
71061	15	23,36/02	72109	3	42,44/02	74205	2	16,24,25/02	74590	2	28,51/02
71066	1	39/02;6,7,10/03	72110	9	15/02	74206	2	24,34/02	74591	7	40/02;8/03
71071	5	15/02	72130	4	46/02	74207	7	25/02;7/03	74592	2	28/02
71081	3	16/02	72131	3	11/03	74210	8	17,23,25,26,35,47,51/02	75000	6	47/02;6/03
71091	4	1,2/03	72161	10	15/02;10/03	74220	2	35,51/02	75001	3	23,47/02;5,6/03
71140	6	33,39,46/02;1/03	72173	2	15/02	74221	2	17,22,23,33,37,43,47/02	75010	7	16,18,41,42,50/02
71180	29	33,37/02;7,12,13,15/03	72181	2	36/02;7,11/03	74229	2	28,39,42/02;5,7/03	75025	9	22,23,36,39/02;2,4,8/03
71183	13	32/02	72190	2	30/02;10/03	74230	7	19,23,35/02;3/03	75035	18	21,24,36,39/02;2,6/03
71185	24	7,13,15/03	72201	8	8/03	74231	1	8/03	75051	6	16/02;5/03
71186	2	7/03	72203	2	16/02	74232	9	15,34,39,42/02;4,5,7,8,9/03	75052	2	16/02
71210	18	44/02;3/03	72211	6	43/02;5,8/03	74234	1	8/03	75110	2	50/02
71211	4	38/02	72231	8	31/02	74240	8	15,17,23,25,26,31,32,34,37,42,44,46,51/02;6,9/03	75120	2	16,42/02
71212	1	18,38/02	72236	1	9,12/03	74251	8	15,17,23,25,26,31,32,34,37,42,44,46,51/02;6,9/03	75130	16	16,18,21,27,31,34,41,50,51/02;5,7,8,16/03
71223	8	17/02	73000	9	26,40,52/02;10/03	74252	9	19,47/02;5,7,9/03	75131	7	18,20,28/02
71230	11	23,38/02;6/03	73002	4	18,24,30/02;5,11/03	74253	6	15,17,19,23,25,27,32,47/02;8,9,16/03	75132	11	31/02
71241	10	18/02;6,12,16/03	73004	4	26/02;10/03	74261	9	15,25,41,49/02;4,10/03	75134	3	23,27,33,51/02;5/03
71243	5	15/03*	73006	2	26/02	74265	2	15,17,18,19,25,31,38,41,43,47,49/02;7,9,16/03	75142	5	15,21,28,36,42,50/02
71247	18	20,21/02;5,6,8,14/03	73008	8	16/02;11,13/03	74270	3	18,19,26,31,38/02;7/03	75143	4	15,20,28,32,33,36,38,42,50/02
71248	2	N51/02*;N1/03	73012	6	11/03*	74271	9	19,28,38,46/02	75144	3	20,31,33,36,42,51/02;4,10/03
71249	2	35/02	73014	10	48,52/02	74272	7	26,32/02;4/03	75150	5	16,50/02;16/03
71251	11	20,35,40/02;1,15/03	73016	4	15,44/02	74273	5	18,19,31,38,41,43/02;7/03	75160	6	22,23,24/02
71253	10	21,35,40,42/02;5,6,7,13,14,16/03	73020	9	25/02;9/03	74281	7	3/03	75170	12	38,39/02;8/03
71255	5	6,14/03	73024	3	39/02	74283	2	46,49/02	75171	22	17,18,22,27,31,32,33,36,38,40,42,48,52/02;1,6,16/03
71257	2	15,18,21,23,28/02;5,6,7,12,13,16/03	73030	4	20/02	74285	2	31,34,35,45/02;1,9,16/03	75172	5	39/02
71258	2	15,18,20,21,28,35/02;5,6,7,13/03	73032	4	25/02;9/03	74286	2	15,22,24/02	75173	9	17,20,25,31,32,33,36/02;1,6/03
71259	3	15/03*	73041	2	18/02;5/03	74287	2	27,34,38,52/02;9/03	75175	9	16,18,31,33,38,40,45,50/02;6/03
71261	8	35/02;2,16/03	73191	3	7/03	74289	5	18,26/02;9/03	75176	9	17,27,42,50/02
71262	7	6/03	73271	7	21/02;13/03	74290	11	25,34,39,45,46,48,49,51/02;1,7,9,10,16/03	75177	7	18,27,38,48,50,52/02;6/03
71263	3	46*;49/02;7,13,15,16/03	73552	4	25,34,45/02;1,7,9,10/03	74292	8	27,34,38/02;9/03	75180	2	8/03
71271	10	23,25,30,34,52/02	73570	7	34,45/02;1,10/03	74293	7	25,34,45,48/02;9,16/03	75182	2	22,47/02;8/03
71272	10	23,30,34/02	73580	4	52/02	74294	3	25,34,45/02	75190	2	23,47/02
71275	3	23,35/02;2,6,16/03	73581	4	16,52/02;3/03	74295	3	18,22/02;4,9/03	75191	6	22,25,37,38,43,47/02;8/03
71281	7	51/02	73590	6	16,31,47,52/02	74296	4	27,34,38,49/02;9/03	75193	6	22,49/02;1,5,7,10,16/03
71285	3	23,25,30,34,52/02;13/03	73601	3	15,17,24,26,31,34,35,47/02	74300	3	35/02;8/03	75202	2	36,52/02;4,16/03
71295	2	25,26,30,34,39,40,52/02;12/03	73610	4	26,31/02	74303	3	15/02	75208	2	26,50/02
71305	2	31,34,36/02;2,13/03	73631	4	36,46/02;1/03	74304	3	15,27/02;16/03	75212	2	36,52/02
71311	4	7/03	73640	5	23,36/02;16/03	74305	4	25/02;16/03	75215	2	36,39,40,52/02;7/03
71313	8	45/02	74000	6	24,36,47/02;2,7/03	74306	3	43/02;9,16/03	75220	12	36,39,49/02;4/03
71314	5	6,10/03	74002	2	18,25,27,28,35,47/02	74307	4	22,32/02;8,9/03	75222	8	18,22,35,40/02
71315	2	27,31,34/02	74003	5	22,25,28,47/02;7,10/03	74308	4	16,22,25,39/02	75240	4	36,39/02;2,4/03
71320	1	35/02;5,14/03	74004	2	18,35,37,39,47/02;9/03	74309	9	16,18,19,25,28,31,38,41,50/02;3/03	75241	6	34,36/02
71325	8	5/03	74005	2	18,19,31,34,35,46,47,51/02;4,7,9,16/03	74310	9	16,18,19,28,31,41,49,50/02;3/03	75251	5	23,33,48/02;3/03
71330	13	35/02;5/03	74006	2	26,31/02	74311	3	16,20,25,38/02;7/03	75261	6	17,21,23,24,33,36,48/02;3,6/03
71331	11	5,7,8/03	74007	1	36/02	74312	3	32,39/02;2/03	75262	6	38/02;16/03
71333	2	6,7/03	74008	6	15,51/02	74313	3	21,22,26,49/02;2/03	75263	9	17,32/02;5/03
71335	2	8/03	74009	10	20,22,25,38,49/02;8,9/03	74314	3	19,21,23,48/02;1,4/03	75264	17	16,17,19,33,34,37,41,42,44,45/02;2/03
71340	11	18,19,22,40,46/02;2,4,5,6,7/03	74010	10	17,20,22,26,37,40,49/02;6,8/03	74315	4	21,22,26,37,40,46,49/02;6/03	75265	2	17,20,21,24/02;6/03
71343	3	7/03	74015	10	20,40/02	74316	2	9/03	76015	1	18,23,24,29,35,40/02
71348	3	18,35/02;7/03	74017	4	17,18,37,45/02	74317	2	8/03	76020	7	18/02
71350	8	15,18,20/02;5,6,7,14/03	74018	6	44/02	74318	2	44/02	76030	9	24,49/02
71400	5	14/03	74020	4	16,17,33,37,38,43/02;5/03	74319	2	44/02	76050	8	24,49/02
71401	1	40,46,51/02;5/03	74021	7	20,33,35,39,44/02;7,10/03	74320	3	16,43/02	76052	8	15,21/02;4,5/03
71402	1	18,40,46/02;4,5,6/03	74024	7	31,44/02	74321	7	16/02	76054	5	49/02
71410	1	39/02;12/03	74027	9	43,44/02	74322	3	16,38,43,45/02	76056	3	9/03
71420	1	38,39/02;3,12,14/03	74030	6	28,51/02	74323	2	41/02;8,9,16/03	76060	7	40/02
71430	3	11/03*	74053	2	28,51/02	74324	2	16,17,33,35,37/02;5,10/03	76061	3	40/02;9/03
71440	2	11/03*	74054	2	28/02	74325	4	20,28,33,35,39/02;4,7,10/03	76070	9	23,35/02
71445	1	7/03	74151	9	20,24,27,36,44/02;2/03	74326	3	18,20,21,39,41/02;4/03	76071	9	23,35/02
71450	1	22,25/02;7/03	74152	11	36,44/02	74327	2	28/02	76080	8	1/03
71455	2	11/03*	74153	2	36,44/02;2/03	74328	2	28/02	76083	3	1/03
71460	1	15,20,25,41/02	74162	4	36,46,47/02;8/03	74329	2	28,44/02	76110	5	23/02
71465	1	20/02	74171	4	33,36,47/02;3,10/03	74330	2	28,44/02	76120	6	22,23,25/02
71470	2	15,38/02;14/03	74172	5	36,47/02;7,10/03	74331	2	31,42,44,48/02	76140	7	46/02
72000	8	31,32,35,47,50/02;2/03	74175	5	36,47/02;7,10/03	74332	2	31,42,44,48/02	76141	8	19,46/02
72007	10	30,36,38,47,51/02;2,5,7,11/03	74181	8	23,28,33,35,37,38,39,47/02;10/03	74333	3	28,40/02	76142	1	46/02
72014	10	46/02;7/03	74182	12	23,24,25,26,28,33,35,37,38,39,41,42,44,51/02;6,10/03	74334	4	5/03	76150	6	35/02
72021	8	31,36,38,47,50,51/02;7/03	74183	11	38,39,42/02;4,6/03	74335	3	34,43,44,48,51/02;5/03	76151	7	22/02
72028	7	15,31,34/02	74184	10	23,24,28,33,35,37,38,46,48/02	74336	10	23,28,32,40,43,46,48,50/02;4,5/03	76161	10	40/02
72035	8	16,31/02;8/03	74186	7	18,34/02;4,10/03	74337	2	5/03	76170	7	29/02
72045	2	16/02;8/03	74190	7	22,23,26,35,36,37,46/02;1,16/03	74338	2	5/03	76180	1	18,22,23/02
72060	4	32,50/02	74191	2	19,22,24,26,35,46,48/02;1,16/03						
72070	4	32/02;2,9/03	74192	3	24,26,28,35,46/02;1/03						
72075	2	20/02;9/03									
72080	7	20,51/02;2,9/03									
72085	3	15/03*									
72094	2	29,38/02;7/03									

## SECTION I

NM 16/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
81002	6	18/02	93043	1	45/02	94207	5	N26,N42,N44,N47, N52/02;N11/03	95162	2	20,40,44,47/02;10,14/03
81023	5	18/02	93046	1	45/02;5/03	94208	6	N44/02	95163	2	27/02;1.6,9,10,13,14/03
81054	13	14/03*	93047	2	45,49/02	94216	6	27,45/02;10/03	95164	4	43,48/02;1.6,9/03
81067	5	51/02;10,12,16/03	93048	1	35,49/02;5,14/03	94217	4	30/02;6/03	95167	10	44/02;1.6,9,11,14/03
81076	9	51/02;10,12,16/03	93049	1	45/02;4/03	94218	3	30,36/02;6/03	95169	2	44,50,52/02;11,16/03
81092	3	38*,50/02	93061	4	45/02	94219	1	47/02	95171	1	1.6,9/03
81711	6	23/02	93101	2	N24,N34,N38/02;N2/03	94220	4	22,26,41,42,47,49/02;8, 10,11/03	95172	1	1.9/03
81715	4	23/02	93110	2	22,24,38,40,41/02;1,2/03	94260	5	49/02;1.6,11/03	95173	1	15,16,17,50,52/02;1/03
82015	13	22/02	93113	2	19/02	94280	5	51/02;15/03	95174	1	17,50,52/02;12/03
82020	7	22/02	93115	2	40,41/02	94281	6	6/03	95176	2	16,20,31/02;8,11/03
82030	8	18/02	93117	2	19,40,41/02	94282	9	46/02;8/03	95177	1	18,41,50/02;9/03
82210	2	42,48/02	93160	4	15*,27,34/02;1,14/03	94283	7	46/02;2,8,12/03	95180	11	15,17,18,27,40,42,44, 49/02;1.6,9,10/03
82242	1	35,48,50/02	93180	7	27,34/02	94290	2	1,7/03	95185	2	20,31,40,44,49/02;10/03
82244	5	35,42,48/02	93200	4	26,27/02	94322	14	8/03	95250	4	44/02;1.6,16/03
82253	7	35,48,50/02	93220	6	17,27,34/02	94360	6	18,32,43/02;6,13/03	95252	2	44/02;1.7,13/03
82374	9	22/02	93240	11	17,34/02;16/03	94361	13	18,32/02;13,15/03	95258	3	6,16/03
82377	2	22/02	93241	9	8,16/03	94363	4	32,43/02;16/03	95261	7	48/02;1.5,9,16/03
82580	2	19/02	93243	6	42/02	94380	4	N5,N6/03	95262	13	41,46/02;1.6,9/03
82646	2	19,33/02	93244	7	16/03	94384	3	5/03	95264	8	48/02
82649	5	18,20,33/02	93245	6	16/03	94420	3	39/02;4,8,11,13,14/03	95267	5	17/02;13/03
82683	4	18,33/02	93247	4	26/02	94421	10	15,45/02;4/03	95268	16	39,48/02;6,9,13/03
82684	3	18,33,38/02;7/03	93260	8	27,31/02;7/03	94422	12	19,45/02;11/03	95270	4	48/02;9,10,13/03
82689	3	18,38/02	93261	5	31/02;7/03	94427	2	N32/02	95271	4	44,48/02;9,10,12,13/03
82690	10	18,19,20/02	93360	5	38/02	94440	2	46/02	95272	2	48/02
82694	6	38/02	93385	6	18/02	95016	8	40/02	95274	3	48/02
82697	6	38,46/02	93420	4	18/02	95040	8	40/02;11/03	95276	3	21/02*
83010	6	6/03	93440	4	18/02	95060	13	15,16,40,43,44,47,48, 52/02;1.6,11,14/03	95280	9	17,48/02;8/03
83021	1	25,27,43/02	93520	13	45/02;15/03	95065	5	48/02;10/03	95281	15	7,10,14/03
83023	4	25,27,43/02	93610	3	44,45/02;6/03	95066	11	15,16,18,19,20,41,43,44, 47,48,49,50/02;1.5,6/03	95282	7	46,52/02;4,6,9/03
83025	1	12/03	93650	2	19,44/02;6/03	95067	13	18,41,44,46/02;1.5,10/03	95300	5	16,45,48,52/02
83026	32	18,41/02;6/03	93652	2	3,6/03	95068	1	41,42,45,47/02;12,14/03	95320	15	35,38/02
83032	1	18/02	93680	3	45,47/02	95080	13	16,18,25,27,30,33,40,44, 45,50,52/02;1.6,7,9,10, 14/03	95341	8	18,19,42,47/02;1,10/03
83039	11	41/02;6/03	93690	2	44/02;6/03	95082	9	19,21,25,27,30,33,44, 46/02;1.4,7,11/03	95342	16	30/02;9,13,16/03
83251	2	2,12/03	93698	3	45/02	95083	8	21,25,33/02;1.4/03	96004	14	16,17,44,45/02
83252	8	18/02;2,12/03	93710	3	26/02;6,15/03	95084	7	15,16,18,50,52/02;8, 12/03	96020	4	41/02
83253	2	18/02;12/03	93720	10	39,45,50/02;8,15/03	95085	4	15,45,52/02;1.6,11,12/03	96032	3	38/02
83382	9	20,25,27/02	93721	5	20,22,26,32,39,42,45, 50/02;4,11/03	95086	5	15,45,52/02;1.6,8,11, 12/03	96039	7	16,17,30/02
83383	2	20,25,27/02	93725	6	20,45/02	95087	3	19,21,25,33,40,48/02;1, 8/03	96041	11	16,17,30/02
83385	19	20,27/02	93726	4	26,48/02;8,12/03	95100	12	15,16,18,38,39,43,44,45, 46,47,50,52/02;1.4,6,7,8, 9,10/03	96042	11	16/02;10/03
83392	5	31/02	93730	3	21,39,40,42,45,47,50/02; 2,4/03	95101	8	15,39,44,50/02;1.5,6,9, 14/03	96043	8	16/02
83393	2	N31/02	93733	13	17,21,22,26,32,39,45/02; 4/03	95102	8	38,42,45,46,47,48,50, 52/02;1.4,5,8,13,14/03	96044	10	29,30/02
83397	6	18/02;1/03	93734	11	17,22,26,32,45/02;4/03	95103	8	42,43,45,47,52/02;4,6,7, 10,12/03	96120	6	30/02
83425	6	20,35/02	93736	22	16,22,26,32,41/02;4/03	95104	7	17,20,21,42,43,52/02;1.4, 14/03	96140	5	30/02
83570	2	24/02	93778	8	47/02;7/03	95108	8	45,46,48,49,50,52/02;8, 16/03	96379	1	10/03
83572	1	24/02	94004	6	19,29,30,33,37,44,52/02; 8,9,10,12/03	95110	12	15,16,18,38,39,43,44,45, 46,47,50,52/02;1.4,6,7,8, 9,10/03	96381	2	10/03
83574	2	7/03	94016	2	23,33,35,52/02;3,9,10, 14/03	95101	8	15,39,44,50/02;1.5,6,9, 14/03	96382	2	10,12/03
83580	2	24/02;8/03	94028	7	23,25,40,42,52/02;1.6,7, 8,9,11,14/03	95102	8	38,42,45,46,47,48,50, 52/02;1.4,5,8,13,14/03	96400	4	12/03
91005	6	45/02	94040	13	30,37,47,51/02;6,8,10/03	95103	8	42,43,45,47,52/02;4,6,7, 10,12/03	96441	1	41/02;10/03
91008	1	29,44,48/02;8,10,12/03	94042	9	47,51/02;7/03	95108	8	42,43,45,47,52/02;4,6,7, 10,12/03	96480	3	41/02
91010	6	29,48/02;10,12/03	94060	10	27,29,30,33,37,46,47/02; 7,8,10,12,14,15/03	95120	7	17,20,21,42,43,52/02;1.4, 14/03	96500	6	41/02;10/03
91020	5	19,21,22/02	94061	5	19,33,35,47/02	95138	8	45,46,48,49,50,52/02;8, 16/03	96520	7	10/03
91025	8	21,22/02	94063	4	29,33,41/02;8/03	95140	15	15,18,22,38,40,41,44,48, 49,52/02;1.7,8,9,10/03	96521	3	N19/02*
91030	3	21/02	94067	10	33/02;10,11/03	95141	8	45,47,50,52/02;1.6,7, 8/03	96540	5	10/03
91080	4	21/02	94080	7	15,27,29,30,33,44,48/02; 10/03	95142	9	15*,18,19,50,52/02;8, 10/03	96560	5	10/03
91096	1	21/02	94082	8	25,27,30,44/02;8/03	95143	11	15,18,40,45,47,48,49, 50/02;1.5,6,7,8,9,10,11, 12,13,16/03	96580	3	10/03
91170	2	38,41,44/02	94083	12	17,25,44/02	95144	9	19,38,41,46,48,50,52/02; 1.6,8,9,10,11,13,16/03	96621	5	10/03
91280	7	19,22/02	94084	1	23,25/02	95146	14	19,36,38,39,40,41,44,46, 47,48,50,52/02;1.8,9, 16/03	96645	1	26/02
91286	10	20/02	94120	6	19,21,33,38,48,52/02;9, 10/03	95147	13	39,41,44,45,46,47,48, 49/02;1.5,9/03	96760	4	29,35,45/02
91289	19	19,20/02	94122	7	19,30,40/02	95149	9	15,18,22,34,36,37,38,41, 43,48,49,52/02;8,9/03	96763	3	29/02
91300	3	21,22/02	94123	9	21,33,38,42,44,52/02;9, 10,15/03	95151	17	15,18,34,36,37,38,40,47, 50/02;1.5/03	96767	7	29,43,48/02;9/03
91331	3	21/02	94124	13	38,42,44/02;10,15/03	95152	5	37,38/02;6,9/03	96768	2	19/02;7/03
91340	3	19,21/02	94127	2	21,33,38/02;6,9,13,16/03	95153	2	15,22,34,36,37,38,43/02	96800	4	19*,41/02
92006	5	45,46/02;5/03	94160	7	26,27,33,38,44,46,47,50, 51,52/02;9,10,12,16/03	95160	13	15,27,41,42,47,52/02;1.6, 8,9,11/03	96840	3	19/02
92010	3	19/02	94164	2	26,27,46,50,51/02;12, 16/03	95161	16	27,31,40,45,48,50/02;1.5, 6,8,9,10/03	96901	3	19,27/02;7/03
92020	2	19/02	94165	4	20,26,50/02				96902	2	45/02
92025	3	21/02	94180	9	26,32,42,44,47,50,51/02				96904	2	27,41/02;12/03
92030	4	19,21/02	94182	2	N51/02				96906	2	27/02
92033	5	45/02	94183	3	32/02;14/03				96910	1	10/03
92060	3	21/02	94188	2	44,46,47,51/02;8/03				96937	2	40/02
92061	3	21/02	94201	1	51/02				96938	4	4/03
92115	1	15/02	94203	10	22,26,41,42,44,46,47, 52/02;10,11/03				96939	3	4,7,9/03
92200	3	19/02	94206	3	22,26,41,42,44,47,52/02; 11/03				96941	8	47/02
92210	3	18*,19/02							96943	15	44/02;1.9,10,12/03
92214	4	19/02							96944	6	45,52/02;6,13/03
92216	3	23/02*							96945	3	43,52/02
92450	3	21/02							96947	15	6,12,13/03
92470	3	19,21/02							96949	21	45/02
92560	4	45/02							96960	3	7/03
93006	2	21,39,45/02;4,8,10/03							96962	4	19,30,35/02;1.9/03
93010	6	15,17,22,27,38,40,41/02; 2,13,14/03							97021	7	16/02
93018	8	27/02;1,14/03							97026	10	23/02
93020	2	15,24,38/02;4,13/03							97029	3	19/02
93022	4	18/02							97040	5	43,47/02
93025	5	45/02							97041	9	45,47/02;10,12/03
93030	6	18,45/02							97042	7	14/03
93032	3	45/02							97043	2	17,23/02;14/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 15/02 THROUGH NM 16/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
97060	8	46/02;12,14/03	97246	7	43,52/02;5/03	802202	8	N23,N31,N35/02;N1,N7/03
97061	3	52/02	97251	4	6,10/03	802260	5	N20/02
97062	12	27,44/02;6,10/03	97261	15	17,18,41/02;1,5,7/03	803404	2	N26/02
97064	2	6,14/03	97262	10	21,29,34/02;1,5,6,7,15/03	804037	1	N28/02
97080	5	16/03	97263	10	5,7,9,15/03	804059	2	N20/02
97082	5	24,46/02;16/03	97266	5	17,37,41/02;1,5,6,7,14,15/03	804567	4	N17/02
97083	3	24/02	97267	16	17,18,25,29,40,41/02;1,5,6,8,10,13/03	805118	3	N12/03
97100	4	20,28,42,47/02;16/03	97268	10	6/03	805647	2	N37,N51/02
97101	1	28/02	97269	11	20,45/02;8,13/03	807861	2	N27/02
97104	4	20/02;7/03	97270	6	36,44/02;1,5/03	808365	2	N14/03
97105	3	20/02	97271	12	17,18,25,29,37,39/02;6,10,12/03	808528	1	N25/02
97120	6	15,22,28,31,37,40,42,43/02;9,14,16/03	97272	11	19,52/02;6,10,12,14/03	809055	7	N16/03
97140	17	15,22,33,37,39,43,45/02;7,9,14,16/03	97273	10	19,27,34,42,45,49/02;6,8,9,13,14,15/03	809310	9	N18,N39/02
97141	5	19,21,40,46/02;8,13/03	97274	19	19,27,31,34,39,45/02;6,9,15/03	809679	2	N25,N50/02;N12/03
97143	11	21,31,43,45/02;9,13/03	97276	1	27,29,40/02;9/03			
97144	14	44*,46/02;7,8,9,13/03	97277	11	17,27/02;1,5,6,8,9,14/03			
97145	1	15,22,43/02;8,9/03	97278	11	39/02;1/03			
97146	10	44/02*;15/03	97279	9	27/02;9/03			
97148	9	21*,23,45/02;9/03	97280	4	52/02			
97149	20	25,34,35,44,45/02;1,16/03	97281	2	41/02			
97150	13	34,39,43,44/02	97283	3	45/02;9/03			
97151	16	31,35,44,45/02;12,13,14,16/03	97285	6	19,23,27,31,34,42/02;7,13/03			
97152	8	37/02	97286	6	21,23,25,27,31,34,35,36,41,42/02;6,8,10,13/03			
97153	7	31/02;16/03	97287	5	34/02			
97154	2	36/02	97300	6	1,13/03			
97155	14	20,31,35,36,37,39,40,48/02;12,13/03	97303	3	18,25,47,48/02			
97156	6	21,37/02;1,14/03	97320	6	33/02;14/03			
97157	1	35,37/02	97340	8	27,33,38,52/02;16/03			
97159	6	33,39/02;7,14,16/03	97341	9	27,34/02;16/03			
97163	14	23/02;14/03	97342	14	27,38/02			
97164	1	7,14,16/03	97343	12	27,38/02			
97165	1	7,16/03	97360	6	20,23,27,38/02;5,7,13/03			
97166	1	33/02	97380	7	21,39,47,52/02;1,2,8,16/03			
97167	2	23,33/02	97381	7	27/02;7,13/03			
97180	6	22,31,34,39,43,45,46,48/02;4,8,13/03	97382	2	41,45/02;4/03			
97181	20	18,22,25,31,34,46,48/02;1,4,7,8,12,13,14/03	97383	16	31/02;5,7,13/03			
97182	13	18,21,23,31,34,39,46,48/02;1,4,5,6,7,8,12,14/03	97384	4	47/02			
97183	9	25,44/02;5,9,14,16/03	97385	10	31,52/02;5,6,7,9/03			
97184	15	25,28,47/02;1,7,12,14/03	97387	2	4,5,7/03			
97185	2	43/02;1,7/03	97389	1	39/02			
97187	3	44,48/02;9/03	97390	5	31,39,40/02;2,5,12,16/03			
97188	2	1,7,13/03	97391	26	31/02;6,7,12,16/03			
97189	2	25,28,44/02;9,14/03	97392	5	21/02;1/03			
97190	2	22,34,39,52/02;8,13/03	97396	14	18,21,36,39,40/02;2,16/03			
97200	9	52/02;8,16/03	97397	7	18,25,39,49/02;16/03			
97202	15	43,44,52/02	97398	3	21,25,49/02			
97204	9	28,29,45,52/02;4,6,10/03	97400	3	25,26/02;1,12/03			
97218	3	21,41/02;6/03	97410	8	21/02			
97219	4	21,25,31/02;6,9,13/03	97412	7	40/02			
97220	3	21,24,31,37,39,42,43,44/02;6,8,9/03	97420	17	21,34,39,42,47,52/02;1,8,10/03			
97221	20	21,24,31,37,39,42,44,45,49,52/02;6,8,9,10,13/03	97421	13	20,35,36/02;1,10,13/03			
97222	12	25,28,47/02;10/03	97423	2	20,35,36/02;1,13/03			
97223	3	42,44,48/02;16/03	97425	6	34,39,47,52/02;1,6,8,10/03			
97224	6	18,25,27,46,47,49/02	97440	8	20,23,27,52/02;1,16/03			
97225	31	21,24,37,39,42,44,45/02;6,8,9,10/03	97441	5	20,46/02			
97226	7	17/02	97443	6	15/03			
97227	11	21,24,42,43/02;9/03	97460	7	40/02;5/03			
97228	15	21,28,30,39,40,42,43/02;5,6,9,15/03	97461	9	21/02;5,8/03			
97229	12	18,24,27,31,36,39,47/02;6,8,9/03	97465	9	21/02;1,6,8/03			
97230	18	29,36,52/02;6,9/03	97466	2	25,46/02;1/03			
97231	11	21,41/02;6/03	97469	10	26/02;1,6,8/03			
97232	8	15,20,25/02	97471	5	N31/02			
97233	11	31,33,43,44,49/02;1,5,6,9,15,16/03	97472	8	34/02			
97234	17	29,43,47,49/02;1,6,8,9,16/03	97474	7	21/02			
97236	20	31,47/02;9,16/03	97480	7	21,35,52/02;3,9,10/03			
97239	10	31,33/02;1,5,9,16/03	97481	6	47,49/02;9/03			
97241	6	10/03	97483	7	48,52/02			
97243	8	21,28,29,31,33,48/02;1,5,6/03	97521	6	19,42/02;16/03			
97244	5	9/03	97564	3	16/03			
97245	11	17,28,36/02;1,5,9/03	800669	8	N20/02			
			800744	1	N22,N49/02;N5,N12,N13,N16/03			
			801217	1	N21/02;N6,N8/03			
			801885	3	N28/02			

## NIMA HYDROGRAPHIC PRODUCTS CATALOG CORRECTIONS

Note: Underlining indicates that column in which a correction has been made or new information added.			Edition		Price Category	Page(s)	NTM
NIMA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date			
REGION 6							
62ACO62440 (7642014013354)	Ad Dawhah to Al Mubarraz	200,000	<u>8</u>	<u>3/03</u>	A	6-24	16/03
62AHA62453 (7642014006201)	<u>Mina Salman</u>	10,000	<u>4</u>	<u>3/03</u>	A	6-20,24	16/03
	<u>Plan: Deep Water Jetty</u> (Plan not shown on index)	5,000					
62XCO62480 (7642014013425)	Strait of Hormuz to Qatar	750,000	<u>2</u>	<u>3/03</u>	A	6-24	16/03
62XCO62490 (7642014015205)	<u>Qatar to Shatt al 'Arab</u>	750,000	<u>2</u>	<u>3/03</u>	A	6-12,24	16/03
62ACO62550 (7642014014941)	Halul to Bahrain	200,000	<u>3</u>	<u>2/03</u>	A	6-24	16/03
62ACO62560 (7642014008590)	Jazirat Abu Ali to Ra's Bard Halq	200,000	<u>4</u>	<u>3/03</u>	A	6-24	16/03

Price Categories effective 1 October 2002

A	17.75	E	9.00	G	4.50	I	26.25
D	10.75	F	9.00	H	2.50	R	2.50

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 DS Distribution Limited  
 GPO Government Printing Office  
 NOS National Ocean Service  
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Note: New editions cancel former editions. They include corrections published in the Notice to Mariners prior to the effective date of the new editions and/or important corrections from other sources. Mariners are warned against the use of obsolete charts and publications as new editions contain information essential to safe navigation; however, such new editions are not valid until their availability is announced in the weekly Notice to Mariners.

**SECTION II**  
**NAVIGATION PUBLICATIONS**

**NM 16/03**

**SAILING DIRECTIONS CORRECTIONS**

**PUB 195            7 Ed 2002            LAST NM 15/03**

Page 23—Line 15/R; read:  
harbor and the approaches.

Due to silting, the authorized drafts in the approach routes may, on occasion, be reduced. Vessels are advised to contact the authorities in advance for the latest information concerning depths in the approach passages.

(Fin NM 24/02)

16/03

## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME I LIGHT LIST, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
30155	- Buoy 8	40 44 39 N 72 53 46 W				Red nun.	Maintained from Apr. 15 to Nov. 1.
		*					16/03
	<b>Jones Inlet</b>						
	<i>Positions of buoys frequently shifted with changing conditions.</i>						
30890	- LIGHT	40 34 23 N 73 34 32 W	<b>FI W</b> 2.5s	33	6	NR on white skeleton tower.	
			*		*		16/03
35725	- Lighted Buoy 9		<b>Q G</b>			Green.	
	*		*			*	16/03

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
35 1100	<i>Little Egg Inlet Outer Lighted Whistle Buoy LE</i>	39 27 48 N 74 17 22 W	<b>Mo (A) W</b>		6	Red and white stripes with red spherical topmark.	
		*					16/03
501	<i>Rudee Inlet Entrance Lighted Buoy 1</i>	36 49 47 N 75 57 49 W	<b>FI G</b> 2.5s		4	Green.	
		*			*		16/03
	<b>*Delete Heading: *OCEAN CITY INLET TO CAPE HATTERAS (Chart 12200)</b>						
503	<i>Rudee Inlet Entrance Lighted Buoy 2</i>	36 49 50 N 75 57 52 W	<b>FI R</b> 2.5s		4	Red.	
					*		16/03
	<b>Camp Lejeune Danger Zone</b>						
740	- Lighted Buoy A	34 36 19 N 77 05 34 W	<b>FI Y</b> 4s		6	Yellow.	
		*					16/03
	<b>LITTLE EGG INLET TO HEREFORD INLET (Charts 12318)</b>						
	<b>Little Egg Inlet</b>						
	<i>Positions of buoys frequently shifted with changing conditions.</i>						
1100 35	- Outer Lighted Whistle Buoy LE	39 27 48 N 74 17 22 W	<b>Mo (A) W</b>		6	Red and white stripes with red spherical topmark.	
		*					16/03
12715	- LIGHT 152A		<b>FI R</b> 2.5s	15	3	TR on multi-pile structure.	
				*			16/03
12735	- LIGHT 155		<b>Q G</b>	15	3	SG on pile.	
				*			16/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
12740	- LIGHT 155A		FI G 2.5s	15	3	SG on pile.	
				*			16/03
12765	- LIGHT 161		FI G 4s	15	3	SG on multi-pile structure.	
				*			16/03
*15157	- LIGHT 3		FI G 4s	16	4	SG on pile.	
							16/03
15785	- Daybeacon 78					TR on pile.	
	*					*	16/03
15795	- Buoy 81						<i>Remove from list.</i>
							*
							16/03
15800	- Buoy 82						<i>Remove from list.</i>
							*
							16/03
15805	- Buoy 83						<i>Remove from list.</i>
							*
							16/03
15810	- Buoy 85						<i>Remove from list.</i>
							*
							16/03
15815	- Buoy 86						<i>Remove from list.</i>
							*
							16/03
15820	- Buoy 88						<i>Remove from list.</i>
							*
							16/03
15825	- Buoy 89						<i>Remove from list.</i>
							*
							16/03
15830	- Buoy 90						<i>Remove from list.</i>
							*
							16/03
15835	- Buoy 91						<i>Remove from list.</i>
							*
							16/03
15840	- Buoy 93						<i>Remove from list.</i>
							*
							16/03
15845	- Buoy 95						<i>Remove from list.</i>
							*
							16/03
15850	- Buoy 97						<i>Remove from list.</i>
							*
							16/03

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## SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2002							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>Big Thorofare</b>							
23015	- CHANNEL LIGHT 1	37 58 24 N 75 58 47 W	FI G 2.5s	15	4	SG on multi-pile structure.	Higher intensity beam toward Little Annemessex River. HORN: 1 blast ev 30s (3s bl). Operates continuously from Sept. 15 to June 1.
				*	*		16/03
23105	- CHANNEL LIGHT 31		FI G 2.5s	15	3	SG on pile.	
				*			16/03
23120	- CHANNEL LIGHT 37		FI G 2.5s	15	3	SG on pile.	Light equipment removed from Dec. 1 to Mar. 15.
				*			16/03
23200	- LIGHT 1	38 00 00 N 76 03 22 W	FI G 4s	15	4	SG on multi-pile structure.	HORN: 1 blast ev 30s (3s bl). Baffled 341° to 064°. Operates continuously from Sept. 15 to June 1.
		*					16/03
23260	- LIGHT 15		FI G 4s	15	4	SG on multi-pile structure.	Light equipment removed from Dec. 1 to Mar. 15.
					*		16/03
<b>Big Annemessex River</b>							
23280	- LIGHT 1	38 03 10 N 75 52 09 W	FI G 2.5s	18	4	SG on multi-pile structure.	
		*					16/03
<b>Daugherty Creek</b>							
23360	- LIGHT 1	38 03 09 N 75 52 10 W	FI W 4s	19	4	SG on multi-pile structure.	Light equipment removed from Dec. 1 to Mar. 15.
		*					16/03
<b>St. Peters Creek</b>							
23435	- ENTRANCE LIGHT 1	38 08 29 N 75 49 53 W	FI G 4s	15	5	SG on multi-pile structure.	Light equipment removed from Dec. 1 to Mar. 15.
		*					16/03
23445	- LIGHT 3	38 08 50 N 75 49 07 W	Q G	19	3	SG on pile.	Light equipment removed from Dec. 1 to Mar. 15.
		*					16/03
<b>Lower Thorofare</b>							
23495	- CHANNEL LIGHT 2	38 07 22 N 75 57 19 W	FI R 4s	15	4	TR on multi-pile structure.	HORN: 1 blast ev 30s (3s bl). Operates continuously from Sept. 15 to June 1.
		*					16/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>Upper Thorofare</b>							
23550	HAINES POINT LIGHT	38 10 19 N 75 57 52 W	FI W 4s	15	6	NR on multi-pile structure.	
				*	*		16/03
23585	- Lighted Buoy 16		FI R 6s		4	Red.	Replaced by nun when endangered by ice.
					*		16/03
23595	Sharkfin Shoal Warning Buoy	38 12 16 N 75 59 09 W				White with orange bands.	Removed from Dec. 1 to Mar. 15.
		*					16/03
23643	- CHANNEL LIGHT 10		FI R 4s	16	3	TR on pile.	
					*		16/03
23765	Danger Shoal Daybeacon						<i>Remove from list.</i>
							*
							16/03
23990	NANTICOKE CUT LIGHT 3		FI G 4s	15	4	SG on pile.	
				*			16/03
24005	- LIGHT 7	38 17 41 N 75 55 55 W	FI G 6s	15	4	SG on multi-pile structure.	
		*		*			16/03
24025	- LIGHT 9A	38 19 25 N 75 54 40 W	FI G 4s	15	4	SG on pile.	Light equipment removed when endangered by ice.
		*		*			16/03
29710	- Buoy 9						<i>Remove from list.</i>
							*
							16/03
29715	- Buoy 9A						<i>Remove from list.</i>
							*
							16/03
*29721	- Buoy 10A					Red nun.	
							16/03
29731	- Buoy 11B						<i>Remove from list.</i>
							*
							16/03
30795	- Channel Lighted Buoy 52 50 feet outside channel limit.		FI R 4s		4	Red.	
		*					16/03
30815	- Channel Lighted Buoy 55 50 feet outside channel limit.		FI G 4s		4	Green.	
		*					16/03

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**SECTION II**

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2002							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
30840	- Channel Lighted Buoy 58 50 feet outside channel limit.	34 09 31 N 77 57 31 W	Q R		3	Red.	
		*					16/03
33315	- CHANNEL LIGHT 9 25 feet outside channel limit.	35 27 42 N 76 57 34 W	FIG 2.5s	15	4	SG on pile.	
						*	16/03
33405 38250	- LIGHT 3	35 10 48 N 76 33 31 W	FIG 4s	15	4	SG-TY on pile.	Higher intensity beam down channel.
						*	16/03
<b>Smith Creek Channel</b>							
33755	- LIGHT 1	35 00 54 N 76 41 28 W	FIG 4s	15	4	SG on multi-pile structure.	
							* 16/03
*33853	- Buoy 9					Green can with yellow square.	
							16/03
38250 33405	- LIGHT 3	35 10 48 N 76 33 31 W	FIG 4s	15	4	SG-TY on pile.	
						*	16/03
38310	- RANGE A FRONT LIGHT 7	34 56 33 N 76 39 34 W	Q W	15	6	KWB-I and SG-I on multi-pile structure.	Visible all around; higher intensity on rangeline.
		*		*			16/03

CORRECTIONS TO C. G. LIGHT LIST, VOLUME III ATLANTIC AND GULF COAST, 2002							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
4955	- UPPER RANGE FRONT LIGHT	32 05 11 N 81 01 29 W	FIG 2.5s	16			Visible 1.5° each side of rangeline. Lighted throughout 24 hours.
		*	*	*		*	* 16/03
4960	- UPPER RANGE REAR LIGHT 159 yards, 212.6° from front light.		Iso R 6s	43			Visible 1.5° each side of rangeline. Lighted throughout 24 hours.
	*					*	* 16/03
30485	- Daybeacon 11		FIG 4s		4	SG on pile.	
	*			*		*	16/03
*47293	- Shoal Daybeacon			16		NW on pile worded DANGER SHOAL	
							16/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME III ATLANTIC AND GULF COAST, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
48495	- LIGHT 59	25 46 13 N 80 10 54 W	Q G	16	3	SG-SY on pile.	
		*					16/03

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
930	Mariner 103-1 Lighted Buoy Marks subsea installation.		Q R			Red.	SIGN: Mariner-VR-144-1. Private aid.
	*	*	*			*	16/03
	*Delete Heading: *MISSISSIPPI RIVER TO GALVESTON (Chart 11340)						
950	McMORAN 130-13 Lighted Buoy Marks subsea installation.	28 55 54 N 92 34 36 W	Q R			Red.	SIGN: MOXY-VR-160-1. Private aid.
							16/03
1145	NOAA Lighted Buoy 42035 (ODAS)	29 14 47 N 94 24 30 W	FI (4) Y 20s	33	3	Yellow disc buoy with mast.	
		*					16/03
7575	- RANGE FRONT LIGHT	30 21 10 N 88 46 45 W	Q W	25		KRW on skeleton tower on piles.	
		*					16/03
<b>CHANDELEUR AND BRETON SOUNDS (Chart 11363)</b>							
<b>Mississippi River - Gulf Outlet</b>							
10560 390	- Approach Lighted Horn Buoy NO	29 26 24 N 88 56 48 W	Mo (A) W FI W 2.5s			6 9 Red and white stripes with red spherical topmark.	High intensity flash tube: FI W 2.5s. RACON: N (- ·). HORN: 1 blast ev 10s (1s bl).
			*				16/03
12870	- HEAD RANGE FRONT LIGHT	29 07 56 N 89 15 25 W	F W	35		KRW on skeleton tower on piles.	Visible 2° each side of rangeline.
		*					16/03
14575	ALHAMBRA RANGE D FRONT LIGHT LDB mile 189.4.	30 12 44 N 91 05 49 W	F R			KRW on skeleton tower on piles.	Visible all around; higher intensity on rangeline. Lighted throughout 24 hours.
		*				*	16/03
20975	- RANGE E FRONT LIGHT	30 07 37 N 93 19 44 W	Q W	38		KRW on skeleton tower on piles.	Visible all around; higher intensity on rangeline.
		*					16/03
<b>Bayport Ship Channel</b>							
23230	- OUTER RANGE FRONT LIGHT	29 36 52 N 94 57 07 W	Q G	25		KRW on skeleton tower on piles.	Visible 2° each side of rangeline.
		*					16/03

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## SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2002							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
23445	- LIGHT 23	29 40 41 N 94 56 27 W	FIG 4s	17	4	SG on pile.	
		*					16/03
23750	- Daybeacon 22					TR on pile.	Private aid.
							16/03
24750	- LIGHT 9	29 22 05 N 94 49 50 W	Q G	17	4	SG on pile.	
		*					16/03
26155	- LIGHT 43	28 31 34 N 96 28 02 W	FIG 4s	17	4	SG on pile.	Ra ref.
		*			*		16/03
<b>Aransas Channel</b>							
27060	- LIGHT 2	27 51 04 N 97 03 50 W	FIR 4s	17	3	TR on dolphin.	Ra ref.
		*			*		16/03

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI PACIFIC COAST AND PACIFIC ISLANDS, 2002							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
210	<b>Point Arguello Light</b>	34 34 37 N 120 38 50 W	FI W 15s	100	9	On single post. 20	
		*					16/03
3138	- Lighted Buoy 5	33 43 46 N 118 15 56 W	Q G			Green.	
		*					16/03
3191	- Lighted Danger Buoy A	33 43 22 N 118 14 33 W	FI W 2.5s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.
	*	*				*	16/03
3192	- Lighted Danger Buoy B	33 43 12 N 118 14 28 W	FI W 2.5s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.
	*	*				*	16/03
3193	- Lighted Danger Buoy C	33 43 02 N 118 14 23 W	FI W 2.5s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.
	*	*				*	16/03
3194	- Lighted Danger Buoy D	33 43 06 N 118 14 09 W	FI W 2.5s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.
	*	*				*	16/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI PACIFIC COAST AND PACIFIC ISLANDS, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*3195	- Lighted Danger Buoy E	33 43 09 N 118 14 00 W	FI W 4s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.  16/03
3196	- Lighted Danger Buoy F	33 43 19 N 118 14 02 W	FI W 2.5s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.  16/03
	*	*				*	16/03
3197	- Lighted Danger Buoy G	33 43 28 N 118 14 08 W	FI W 2.5s			White pontoon tank with sign reading "Danger Shallow Area".	Private aid.  16/03
	*	*				*	16/03
	*Delete Heading: *King Harbor						
3336	- Midchannel Buoy A						Remove from list.  * 16/03
	*Add Heading: *King Harbor						
3337	- Channel Buoy 1					Green can.	Private aid.  16/03
3341	- Midchannel Buoy B						Remove from list.  * 16/03
3351	- Midchannel Buoy C						Remove from list.  * 16/03
3361	- Midchannel Buoy D						Remove from list.  * 16/03
5210	- LIGHT 7	37 31 59 N 122 11 32 W	FI G 2.5s	15	3	SG on pile.	Ra ref.  16/03
		*					16/03
6150	- Buoy 4WR Marks channelward side of submerged wreck.	38 09 20 N 122 17 36 W				Red nun.	  * 16/03
6210	- LIGHT 20	38 15 13 N 122 17 04 W	FI R 4s	15	3	TR on pile.	  * 16/03
7180	- LIGHT 3	38 03 58 N 121 50 35 W	FI G 2.5s	15	4	SG on pile.	Higher intensity beam upstream. Ra ref.  16/03
		*					16/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI PACIFIC COAST AND PACIFIC ISLANDS, 2002

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7200	- LIGHT 8	38 03 35 N 121 48 31 W	<b>FI R</b> 4s	15	3	TR on pile.	Ra ref.
		*					16/03
7230	- LIGHT 14	38 04 35 N 121 45 57 W	<b>FI R</b> 2.5s	15	2	TR on pile.	Ra ref.
		*					16/03
8245	SAMOA CHANNEL LIGHT 2	40 48 08 N 124 11 11 W	<b>FI (2+1) R</b> 6s	15	2	TR on pile.	Ra ref.
		*	*				16/03
8250	SAMOA CHANNEL LIGHT 3	40 48 33 N 124 11 07 W	<b>FI G</b> 4s	15	3	SG on pile.	Ra ref.
		*					16/03
9985	- <i>Channel Lighted Bell Buoy 21</i>	46 14 07 N 123 58 54 W	<b>FI G</b> 2.5s		4	Green.	
		*					16/03
10090	Tansy Point Range Buoy 35B 68 yards outside channel limit.	46 11 44 N 123 50 46 W				Green can.	
		*					16/03
10100	- <i>Crossing Lighted Buoy 37</i>	46 11 46 N 123 50 01 W	<b>FI G</b> 4s		4	Green.	
		*					16/03
10105	- LOWER RANGE FRONT LIGHT	46 11 29 N 123 50 10 W	<b>F R</b>	40		KRB on roof.	Visible 3° each side of rangeline. Lighted throughout 24 hours.
		*					16/03
10175	- RANGE FRONT LIGHT	46 15 21 N 123 40 37 W	<b>Q W</b>	20		KRB on pile structure.	Visible 2° each side of rangeline.
		*					16/03
14835	SAUVIE ISLAND JUNCTION LIGHT	45 51 39 N 122 47 27 W	<b>FI (2+1) R</b> 6s	15	4	JR on pile structure.	
		*		*	*		16/03

**Note:** Asterisks (\*) indicate that column(s) in which a correction has been made or new information added.  
Denotes a new entry when preceding the station number.

## SECTION II

### CORRECTIONS TO PUB 110, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
3512 <i>H 2134</i>	-L'Anse St. Jean, head of pier S. side of bay.						<i>Remove from list.</i>  * 16/03
14755 <i>J 5673.13</i>	---Cruise ship terminal, E. dolphin.						<i>Remove from list.</i>  * 16/03
14755.5 <i>J 5673.15</i>	---W. dolphin.						<i>Remove from list.</i>  * 16/03
*14755.6 <i>J 5673.14</i>	---Cruise ship terminal, S. dolphin.	17° 17.2' N 62° 43.4' W	FL.Y.				16/03
*16054 <i>J 6399</i>	Klein Curacao (N.).	11° 59.4' N 68° 38.6' W	Fl.(2)W. period 15s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 10.6s	82 25	15	White tower, red top; 66.	16/03

### CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7590 <i>K 2331.45</i>	--Patterson River.	38° 04.5' S 145° 07.1' E	Q.(2)Y. period 4s	13 4	2	Yellow beacon.	* * 16/03
9556 <i>K 3312</i>	Cape Wessel.  RACON	11° 00.3' S 136° 45.6' E	Fl.W. period 5s  Y(- - -) period 120s	177 54	15  19	White hut on metal framework tower; 98.	* 16/03
9698 <i>K 3282</i>	-Caldbeck Reef.	10° 06.3' S 143° 10.0' E	Fl.(4)W. period 16s	23 7	10	Rectangular daymark on white pile.	Radar reflector.  * * 16/03
12800 <i>G 5545</i>	-Comox Harbor breakwater, head.	49° 40.2' N 124° 55.8' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	12 4	5	Mast.	* * 16/03
12802 <i>G 5545.3</i>	-Comox Harbor, E. breakwater.	49° 40.1' N 124° 55.5' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	11 3	5	Mast; 5.	* 16/03

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## SECTION II

### CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
12852 <i>G 5529</i>	<b>Sisters Islet.</b>	49° 29.2' N 124° 26.1' W	<b>Fl.(2)W.</b> period 15s fl. 0.4s, ec. 3s fl. 0.4s, ec. 11.2s	70 21	17	White round tower.	Emergency light.
					*		16/03
12868 <i>G 5508</i>	<b>Ballenas Island.</b>	49° 21.0' N 124° 09.6' W	<b>Fl.W.</b> period 10s fl. 0.5s, ec. 9.5s	70 21	17	White tower; 27.	Visible 040°-307°. Emergency light.
					*		16/03
12888 <i>G 5502</i>	White Islets.	49° 25.1' N 123° 42.6' W	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	35 11	6	White round tower.	<b>Radar reflector.</b>
					*		16/03
12904 <i>G 5420.4</i>	-Gibsons Landing Rock.	49° 23.9' N 123° 29.9' W	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	5	White round tower, green band at top.	
					*		16/03
12944 <i>G 5423</i>	-Finisterre Island.	49° 25.1' N 123° 18.5' W	<b>Q.W.</b>	33 10	6	White round tower.	
				*	*		16/03
12972 <i>G 5426</i>	<b>-Point Atkinson.</b>	49° 19.8' N 123° 15.8' W	<b>Fl.(2)W.</b> period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	108 33	15	White hexagonal tower with six buttresses.	Emergency light.
					*	*	16/03
	-First Narrows:						
12984 <i>G 5435</i>	--Beacon, N. side.	49° 19.2' N 123° 08.8' W	<b>Iso.G.</b> period 2s	25 8	8	White tower, green band, 4-pile dolphin.	<b>Radar reflector.</b>
				*	*	*	16/03
12988 <i>G 5434</i>	--Prospect Point.	49° 18.8' N 123° 08.5' W	<b>Iso.R.</b> period 2s	38 12	10	White square tower, red band; 27.	
				*	*		16/03
12992 <i>G 5437</i>	-Lions Gate Bridge, S.	49° 18.9' N 123° 08.3' W	<b>F.W.R.G.</b>	208 63	14	On bridge structure.	G. 303°-304°, W.-306°, R.-307° (W. sector indicates preferred channel).
					*		16/03
12996 <i>G 5438</i>	--Lions Gate Bridge, N.	49° 19.0' N 123° 08.3' W	<b>F.W.R.G.</b>	208 63	14	On bridge structure.	G. 303°-304°, W.-306°, R.-307° (W. sector indicates preferred channel).
					*		16/03
13000 <i>G 5442</i>	-Calamity Point.	49° 18.8' N 123° 07.7' W	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	17 5	10	White round tower, green band, 16-pile dolphin.	
					*		16/03

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## SECTION II

### CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
13012 <i>G 5455</i>	-Deadman Island.	49° 17.5' N 123° 07.4' W	<b>Q.R.</b>	22 7		White round tower, red band, 3-pile dolphin.	
				*		*	16/03
13014 <i>G 5456</i>	-Coal Harbor.	49° 17.6' N 123° 07.5' W	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	21 6		White tower, red band, 9-pile dolphin.	
			*	*			16/03
13016 <i>G 5465</i>	-Terminal Dock, East.	49° 17.6' N 123° 03.0' W	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	8 2	7	Mast on pilings.	
						*	16/03

### CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
Ogasawara Gunto:							
4960 <i>F 8348</i>	-Futami Ko, breakwater.	27° 05.6' N 142° 11.7' E	<b>Oc.G.</b> period 8s	33 10	9	White round fiberglass structure; 31.	
		*		*	*		16/03
5632 <i>F 6265</i>	-Range, front.	35° 08.7' N 138° 41.4' E	<b>F.G.</b>	66 20	10	White round concrete tower; 56.	
		*			*		16/03
5636 <i>F 6265.1</i>	-Rear, 215 meters 323°30' from front.	35° 08.8' N 138° 41.3' E	<b>F.G.</b>	89 27	10	White round concrete tower; 75.	
	*				*		16/03
10874 <i>F 4861</i>	Miyanoura, breakwater, head.	31° 23.8' N 131° 20.3' E	<b>Fl.G.</b> period 4s	56 17	7	White tower; 28.	
		*		*	*		16/03
11826 <i>F 5200</i>	Hisen Hira Se.	32° 47.1' N 129° 45.2' E	<b>Fl.(2)W.</b> period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 56.	
		*			*		16/03
*21746.5 <i>F 1627.9</i>	Telok Gong intake.	2° 19.9' N 102° 02.7' E	<b>Fl.Y.</b> period 5s	36 11	7	Yellow column on piles.	
							16/03
*22542 <i>F 1406</i>	Tg. Jati.	1° 35.8' N 102° 00.3' E	<b>L.Fl.</b> period 8s	52 16	13		
							16/03
28396 <i>F 0362</i>	-Navinar Point.	22° 43.8' N 69° 42.4' E	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	80 24	23		Marine control tower.
		*				*	*
							16/03

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## SECTION II

### CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
* E 0065.3	4367 -Rio Guadalmedina, submerged jetty, head.	36° 42.1' N 4° 25.7' W	<b>Q.(6)W.+L.FI.</b> period 15s		3	S. CARDINAL YB, post, topmark; 13.	16/03
17056 E 4880	-Ince Burnu.	40° 33.4' N 26° 59.7' E	<b>FI.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 32	10	White masonry structure; 34.	16/03
		*				*	16/03
* E 4621.2	19837 -Mordogan, W. breakwater, head.	38° 31.1' N 26° 37.7' E	<b>FI.G.</b> period 5s fl. 1s, ec. 4s		5	Metal framework tower.	16/03
* E 4621.3	19837.1 - -E. breakwater, head.	38° 31.1' N 26° 37.7' E	<b>FI.R.</b> period 5s fl. 1s, ec. 4s		5	Metal framework tower.	16/03
20260 E 4726.6	-Akra Louros.	36° 53.4' N 27° 20.3' E	<b>FI.(3)W.R.</b> period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	30 9	W. 6 R. 4	Metal framework tower on round hut; 23.	W. 130°-060°, R.-130°.
				*	*	*	16/03

### CORRECTIONS TO PUB 116, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
* C 0390.5	402 Byxeskaren.	58° 15.7' N 11° 23.2' E	<b>V.Q.G.</b>	31 10	3	White concrete tower; 16.	Visible 070°-270°. <b>Radar reflector.</b>
8972 C 6677.8	Egelsholm Range, front.	59° 00.0' N 17° 43.0' E	<b>Q.W.R.G.</b>	10 3	W. 10 R. 7 G. 6	White hut, red roof. Floodlit.	G. shore-170°, W.-171°30', R.- 230°, G.-338°, W.-353°30', R.-shore.
						*	16/03
* C 6680	9005 Tegelltorp.	59° 13.9' N 17° 36.4' E	<b>Q.W.R.G.</b>	16 5	W. 3 R. 2 G. 2	White structure, green band.	R. 338°-348°30', G.-354°30', W.-151°, R.-shore.
10296 C 6238	Argos Grund.	60° 37.7' N 18° 21.6' E	<b>FI.W.</b> period 3s	56 17	9	White tower, black band, on gray base in water; 59.	16/03
	RACON		<b>O(- - -)</b> period 30s		14		(3 & 10cm)
						*	16/03

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**PUBLICATIONS AFFECTED BY NOTICE TO MARINERS  
THROUGH NM 16/03**

Note: \* indicates New Edition/New Publication; \*\* indicates Publication Canceled; N indicates Not For Sale

NIMA Reference No.	Ed.	Notice to Mariners No.	NIMA Reference No.	Ed.	Notice to Mariners No.	NIMA Reference No.	Ed.	Notice to Mariners No.
<b>NIMA HYDRO CATALOG CATP2V01U</b>			SDPUB148	2001	48/01*:23,24/02	COMDTM165024	2002	30*,31,32,33,34,35,36,37,40,41,42,43,45,46,47,48,49,50,51,52/02;1,2,3,4,5,7,9,10,11,12,13,14,15,16/03
Region 1	2002	1*2,3,4,7,8,9,10,11,14,15/03	SDPUB153	2000	6/01*:28,30,41,44,46,47,48,52/02;1,3,4,8,13,15/03	COMDTM165025	2002	16/02*
Region 2	2002	1*,8,15/03	SDPUB154	2002	17*,19,31,42,44,45,46,48,50/02;3,14/03	COMDTM165026	2002	35*,36,40,41,42,43,44,45,46,47,48,49,50,51,52/02;1,2,3,4,5,7,9,10,11,12,13,14,15,16/03
Region 3	2002	1/03*	SDPUB155	2001	31*,48/01;10,45,46/02	COMDTM165027	2002	16*,17,18,19,20,21,22,23,25,27,29,30,32,33,34,36,37,40,43,45,46,47,48,50,51,52/02;1,4,6,13,15/03
Region 4	2002	1/03*	SDPUB157	2000	20*,27,29,33,34,35,38,41,44,48/00;1,3,4,6,7,11,12,13,21,23,32,47/01;2,5,9,13,14,20,22,27,38/02			
Region 5	2002	1*,3,5,8/03	SDPUB158	2000	50/00*:5,10,12,13,15,17,20,24/01;46/02			
Region 6	2002	1*,10,11,13,16/03	SDPUB159	2002	42*,48/02			
Region 7	2002	1*,11,15/03	SDPUB160	2002	47*,48,49,52/02;6,8,10,11/03			
Region 8	2002	1*,14/03	SDPUB161	2002	23*,24,44,47,48/02;5,12/03			
Region 9	2002	1/03*	SDPUB162	2001	51/01*:5,12/03			
Miscellaneous Charts and Publications	2002	1*2,4,5,6,7,9,11,12,13,15/03	SDPUB163	2002	18*,20,21,26,46,51/02;13/03			
<b>NIMA LIST OF LIGHTS</b>			SDPUB164	2000	30/00*:31,35,36/01;8/03			
LLPUB110	2003	7*,8,9,11,13,14,15,16/03	SDPUB165	2001	40*,47,48,52/01;5,9,14,16,41/02			
LLPUB111	2002	35*,36,37,38,39,40,41,42,43,44,45,46,47,48,50,51,52/02;1,2,3,4,5,6,7,8,9,10,12,15,16/03	SDPUB166	2002	1*,2,3,5,6,7,8,9,14,15,16,17,18,19,20,22,24/02;1,11,12,13,14,15/03			
LLPUB112	2003	4*,5,6,7,8,9,10,11,12,13,14,15,16/03	SDPUB167	2001	50*,51/02;3/03			
LLPUB113	2002	45*,47,48,50,51,52/02;1,2,3,4,5,6,7,8,10,11,12,13,14,15,16/03	SDPUB168	2000	7*,19,37,45,51,52/01;1,5,14,19,22,28,33,37,38,48/02			
LLPUB114	2002	13*,15,16,17,19,20,21,22,23,24,31,32,34,35,36,38,39,40,41,43,45,46,47,48,49,51/02;1,4,5,6,14,15/03	SDPUB169	2001	41*,43,45,51/01;8,11,12,13,14,16,17,21,27,37,41,49/02			
LLPUB115	2002	39*,40,41,44,45,50,51,52/02;1,15/03	SDPUB170	2002	32*,33,42,47,48,50/02;6,13,14/03			
LLPUB116	2002	18*,20,21,22,24,25,26,27,29,31,34,37,41,42,44,45,46,47,48,49,50,52/02;1,2,4,5,6,7,8,9,10,11,12,13,16/03	SDPUB171	2002	38*,39/02			
<b>SAILING DIRECTIONS</b>			SDPUB172	2001	8*,10,12,41/02			
CDPUBSD131	2002	9/03*	SDPUB173	2001	27/01*:13,15,16/02			
CDPUBSD146	2002	4/03*	SDPUB174	2000	5*,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,27,28,29,30,31,33,34,36,44,45,47,48/01;10,14,15,16,17,42,50/02;2,9,12,15/03			
CDPUBSD194	2002	6*,8,15/03	SDPUB175	2001	14*,16,17,18,24,26,31,36,38,39,46/00;4,14,17,21,22,23,25,26,28,30,31,32/01;11,12,13,14,15,16,22,23,27,36,37,42,48,52/02;2,4,5,6,7,8,13/03			
SDPUB120	2001	12*,18,48,49,51/01;8,13,14,21,22,24,29,33,35,37,42,43,44,45,47/02;4,6,7,8,9,10,11,12,14/03	SDPUB180	2002	27*,38,49/00;9,26,27,31,32/01;14,15,26,52/02			
SDPUB123	2001	45*,47,48/01;1,14,17,18,19/02	SDPUB181	2002	33*,40,49,51,52/02;1,2,3,15,16/03			
SDPUB124	2001	18*,44,45,47,48,49,52/01;17,19,20,21,29,30,31,34,46,50/02	SDPUB182	2001	38*,39,42/02			
SDPUB125	2000	6*,9,10,20,21,40/00;36,37,45,46/01;14,17,33,35,38,40/02	SDPUB183	2001	27/01*:13,15,16/02			
SDPUB126	2002	39*,41,42,43,44,45,48/02	SDPUB191	2000	5*,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,27,28,29,30,31,33,34,36,44,45,47,48/01;10,14,15,16,17,42,50/02;2,9,12,15/03			
SDPUB127	2000	37*,38/00;18,33,40,44,45,48,49,52/01;1,11,13,17,18,27,33,34,37,41,47,49,51/02;5/03	SDPUB192	2000	14*,16,17,18,24,26,31,36,38,39,46/00;4,14,17,21,22,23,25,26,28,30,31,32/01;11,12,13,14,15,16,22,23,27,36,37,42,48,52/02;2,4,5,6,7,8,13/03			
SDPUB132	2000	39*,45/00;16,17,31,35/01;1,12,21,25,26/02;2,10/03	SDPUB193	2000	27*,38,49/00;9,26,27,31,32/01;14,15,26,52/02			
SDPUB140	2001	21*,48,49,51/01;8,17,23,32,42,43,44,46,47,48,50/02;4,6,7,8,9,11,12,15/03	SDPUB195	2002	33*,40,49,51,52/02;1,2,3,15,16/03			
SDPUB141	2001	21*,38/01	SDPUB200	2002	38*,39,42/02			
SDPUB142	2000	49/00*:3,31,35/01;1,15,43/02	<b>USCG LIGHT LIST VOLUMES I - VII</b>			INTERNATIONAL CODE OF SIGNALS	1999	46/99*:52/01
SDPUB143	2000	8*,10,19,29/00;16,26/01;1,25/02;9/03	COMDTM165021	2002	30*,31,32,33,34,35,36,37,39,40,41,42,43,44,45,46,47,48,49,50,51,52/02;1,2,4,5,6,7,8,9,11,12,13,15,16/03	WORLD PORT INDEX	2000	50/00*:14,15,16,20,21,41,42,43,44,45,46,47,48,49,51,52/01;1,2,5,6,10,11,12,16,19,21,22,27,31,32,33,36,39,40,42,46,49/02;2,7,10,15/03
SDPUB145	2000	13*,14,18,19,22,26,32,37,38,46,47,51,53/00;1,4,5,7,10,12,28,29,35,52/01;14,27/02	COMDTM165022	2002	16*,17,18,19,20,21,22,23,25,26,27,28,29,30,31,32,33,34,35,36,37,40,41,42,43,44,45,46,47,48,49,50,51,52/02;1,2,3,4,5,6,7,9,10,11,12,13,14,15,16/03	DISTANCES BETWEEN PORTS	2001	4/02*
SDPUB147	2001	35/01*:21,22,23,24/02	COMDTM165023	2002	35*,36,37,40,41,42,43,44,45,46,47,48,49,50,51/02;1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16/03	RADAR NAVIGATION AND MANEUVERING BOARD MANUAL	2001	51/01*
						FLEET GUIDES	2001	N47/01*
						FGPUB940ATL	2001	N22/01*
						FGPUB941PAC	2001	N22/01*
						<b>NOS MISCELLANEOUS PUBLICATIONS</b>		
						NOSPBCATALOG1	2000	20/00*
						NOSPBCATALOG2	2000	34/00*
						NOSPBCATALOG3	2000	28/00*
						NOSPBCATALOG4	2000	34/00*
						<b>ALMANACS</b>		
						AIRALMANAC301	2003	44/02*
						NAUTALMANAC03	2003	44/02*
						<b>COAST PILOT</b>		
						NOSPBCP1	32	37*,39,41,47,51/01;1,5,7,13,18,33,37,39,42,45,49,51/02;3,9,10/03
						NOSPBCP2	31	44*,47,51,52/01;5,7,12,13,18,23,33,37,39,42,45,48,51/02;3,6,11,13/03
						NOSPBCP3	35	3*,5,7,12,15,17,18,21,22,27,28,33,37,42,45,49,51/02;3,10,12,13,14/03
						NOSPBCP4	34	49*,51/02;12,14/03
						NOSPBCP5	30	2*,6,10,12,14/03
						NOSPBCP6	32	19*,20,21,33,39,45,47,49,51/02;3,6/03
						NOSPBCP7	34	1*,3,10/03
						NOSPBCP8	24	3*,5,16,17,19,23,33,37,40,47,50,51/02;9/03
						NOSPBCP9	20	12*,20,23,33,37,45,50,51/02;3,6,9,10,14/03
						<b>RADIO NAVIGATIONAL AIDS</b>		
						RAPUB117	2002	50/02*:13/03
						<b>AMERICAN PRACTICAL NAVIGATOR</b>		
						NVPUB9	2002	36/02*:14/03
						<b>INTERNATIONAL CODE OF SIGNALS</b>		
						NVPUB102	1999	46/99*:52/01
						<b>WORLD PORT INDEX</b>		
						NVPUB150	2000	50/00*:14,15,16,20,21,41,42,43,44,45,46,47,48,49,51,52/01;1,2,5,6,10,11,12,16,19,21,22,27,31,32,33,36,39,40,42,46,49/02;2,7,10,15/03
						<b>DISTANCES BETWEEN PORTS</b>		
						NVPUB151	2001	4/02*
						<b>RADAR NAVIGATION AND MANEUVERING BOARD MANUAL</b>		
						CDPUBNV1310	2001	51/01*

**PUBLICATIONS AFFECTED BY NOTICE TO MARINERS  
THROUGH NM 16/03**

Note: \* indicates New Edition/New Publication; \*\* indicates Publication Canceled; N indicates Not For Sale

NIMA Reference No.	Ed.	Notice to Mariners No.
<b>SIGHT REDUCTION TABLES (MARINE)</b>		
SRPUB229V1	1970	11/71*
SRPUB229V2	1970	11/71*
SRPUB229V3	1970	7/71*
SRPUB229V4	1970	3/71*
SRPUB229V5	1970	3/71*
SRPUB229V6	1970	23/70*
<b>SIGHT REDUCTION TABLES (AIR)</b>		
SRPUB249V1	2000	4/01*
SRPUB249V2	1952	46/52*
SRPUB249V3	1952	46/52*
<b>CHART NO. 1</b>		
WOBZC1	1997	18/98*
<b>CHART NO. 4</b>		
WOBZC4	1988	N20/89*
<b>ATLAS OF PILOT CHARTS</b>		
NVPUB107	1998	30/99*
NVPUB109	2001	49/02*
<b>USCG NAVIGATION RULES</b>		
COMDTM166722D	1999	44/99*;52/00
<b>NOS TIDE TABLES</b>		
NOSPBTTCWPACIN3	2003	N4/03*
NOSPBTTECSTNSA3	2003	N4/03*
NOSPBTTEURAFR3	2003	N4/03*
NOSPBTTCSTNSA3	2003	N4/03*
<b>TIDAL CURRENT TABLES</b>		
NOSPBTCTATCSTN3	2003	N4/03*
NOSPBTCTPACAS3	2003	N4/03*

**BROADCAST WARNINGS**

Details concerning the particulars of the broadcasting of radio navigational warnings may be found in Radio Navigational Aids, Pub. 117.

**NAVAREA IV**

Messages in force 031200Z April 2003:

2001 series	346(GEN)	2003 series	108(26,27)	122(11)	127(GEN)
393(GEN)	351(11)	99(11)	112(GEN)	123(GEN)	128(GEN)
2002 series	365(14)	106(GEN)	113(24)	125(11)	131((24)
219(GEN)	468(GEN)	107(GEN)	121(11,26)	126(GEN)	

The summary of all NAVAREA IV messages in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarter are issued in NM 13/03.

**NAVAREA IV WARNINGS issued from 271200Z March to 031200Z April 2003.**

120/03. CANCELED.

121/03(11,26). NORTH ATLANTIC. HAZARDOUS OPERATIONS.

## 1. HAZARDOUS OPERATIONS:

## A. 310500Z MAR TO 010459Z APR IN AREA BOUND BY

30-45.0N 080-32.0W, 30-45.0N 079-40.0W,  
30-37.5N 079-40.0W, 30-34.0N 080-33.0W.

## B. 0500Z TO 0459Z COMMENCING DAILY

01 THRU 06 APR IN AREA IN AREA BOUND BY

30-45.0N 080-54.0W, 30-45.0N 080-11.0W,  
30-36.0N 080-11.0W, 30-34.0N 080-33.0W.

## C. 0500Z TO 0459Z COMMENCING DAILY

31 MAR THRU 06 APR IN AREA BETWEEN  
29-10.0N 29-20.0N AND 079-40.0W 079-50.0W.

## D. 1300Z TO 0459Z COMMENCING DAILY

01 THRU 03 APR IN AREA BETWEEN  
29-40.0N 29-50.0N AND 080-30.0W 080-40.0W.

## 2. CANCEL THIS MSG 070559Z APR.

(281530Z MAR 2003)

122/03(11). GULF OF MEXICO.

## 1. DERELICT F/V HAWK ADRIFT VICINITY

28-03N 083-51W.

## 2. CANCEL THIS MSG 04 APR.

(281639Z MAR 2003)

123/03(GEN).

## 1. NAVAREA IV MESSAGES IN FORCE 291000Z MAR 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.

2003 SERIES: 99(11), 105(24), 106(GEN), 107(GEN), 108(26,27),  
109(11,26), 112(GEN), 113(24), 115(GEN), 121(11,26), 122(11).

## 2. THE SUMMARY OF ALL NAVAREA IV MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.

## 3. CANCEL NAVAREA IV 111/03.

(291010Z MAR 2003)

124/03. CANCELED.

125/03(11). GULF OF MEXICO. HAZARDOUS OPERATIONS.

## 1. HAZARDOUS OPERATIONS 012000Z TO 040900Z APR WITHIN 30 MILES OF 25-10N 083-53W.

## 2. CANCEL THIS MSG 041000Z APR.

(311510Z MAR 2003)

126/03(GEN). GPS SATELLITE SYSTEM.

## 1. PRN 02 UNUSABLE 031915Z TO 040715Z APR.

## 2. CANCEL THIS MSG 040815Z APR.

(311730Z MAR 2003)

127/03(GEN). NORTH ATLANTIC. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 061351Z TO 061838Z APR, ALTERNATE 071347Z TO 071834Z APR IN AREAS BOUND BY:
  - A. 28-39N 080-39W, 28-42N 080-26W, 28-31N 079-10W, 28-26N 079-10W, 28-25N 080-27W, 28-29N 080-40W.
  - B. 28-49N 078-08W, 28-12N 071-21W, 27-34N 070-04W, 27-06N 070-19W, 28-06N 078-14W.
  - C. 26-27N 062-04W, 25-42N 058-28W, 24-49N 058-42W, 25-41N 062-17W.
  - D. 21-40N 043-10W, 13-48N 026-02W, 12-31N 026-54W, 20-13N 043-50W, 21-40N 043-10W.
2. CANCEL THIS MSG 071934Z APR.

(010740Z APR 2003)

128/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.

1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY UNUSABLE 032100Z TO 032300Z APR. FOR URGENT SERVICE CONTACT NIMA NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149, E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.
2. CANCEL THIS MSG 040001Z APR.

(011920Z APR 2003)

129/03 and 130/03. CANCELED.

131/03((24). NORTH ATLANTIC. ROCKETS.

1. HAZARDOUS OPERATIONS 2000Z TO 0230Z COMMENCING DAILY 08 APR THRU 08 MAY IN AREAS:
  - A. WITHIN 12 MILES OF COASTLINE BETWEEN 05-19N 052-47W AND 05-04N 052-30W.
  - B. BOUND BY 05-10N 047-12W, 04-39N 047-14W, 04-43N 048-12W, 05-14N 048-10W.
  - C. BOUND BY 04-54N 045-53W, 04-37N 045-54W, 04-44N 047-24W, 05-01N 047-23W.
2. CANCEL THIS MSG 090330Z MAY.

(030940Z APR 2003)

## SECTION III

NM 16/03

## HYDROLANTS

Messages in force 031200Z April 2003:

2000 series	1485(24)	271(GEN)	496(55)	629(53)	679(24)
1569(36)	2027(GEN)	309(24)	522(24)	633(37)	680(GEN)
2937(38)	2203(51)	317(37)	536(36)	635(51)	682(57)
3762(43)	2354(53)	339(GEN)	544(55)	642(37,43)	683(GEN)
4265(44)	2673(GEN)	368(54)	551(53)	644(55)	684(23,29)
2001 series	2682(51)	369(51)	553(35,36)	652(52,53)	685(35)
611(44)	2808(24)	382(24,25)	563(37)	653(53)	686(55)
1798(37)	2848(37)	383(57)	573(55)	654(52,53)	687(56)
2659(GEN)	2869(52)	390(22)	577(51)	659(GEN)	688(56)
2700(37)	2882(54)	404(37)	579(37)	660(52)	689(36)
2864(53)	2883(54)	427(56)	580(53)	671(53)	690(24)
3161(44)	2003 series	433(GEN)	583(GEN)	672(23)	691(37)
2002 series	41(37)	463(52,53)	599(GEN)	673(55)	692((24)
245(GEN)	65(53)	476(54)	602(54,56)	674(GEN)	
246(GEN)	67(37)	481(37)	604(26,27)	675(37)	
383(53)	76(54)	483(57)	610(GEN)	677(24)	
946(53)	181(57)	490(51)	615(54,56)	678(24)	

The summary of all HYDROLANTS in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarter are issued in NM 13/03.

**HYDROLANT WARNINGS issued from 271200Z March to 031200Z April 2003.**

642/03(37,43). NORTH SEA.

SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE  
BY M/V CGG AMADEUS TOWING EIGHT 6000 METER LONG  
CABLES IN AREA BETWEEN 56-41N 58-07N AND  
001-45E 003-30E. FOUR MILE BERTH REQUESTED.

(271310Z MAR 2003)

643/03. CANCELED.

644/03(55). BLACK SEA. GUNNERY.

1. GUNNERY EXERCISES 0600Z TO 1300Z DAILY  
01 THRU 05 APR IN AREA BOUND BY  
44-57.5N 035-33.5E, 45-03.5N 035-33.5E,  
44-59.4N 035-48.0E, 44-57.5N 035-48.0E.
2. CANCEL THIS MSG 051400Z APR.

(271555Z MAR 2003)

645/03 thru 651/03. CANCELED.

652/03(52,53). SARDEGNA-SOUTH COAST. GUNNERY.

1. GUNNERY EXERCISES 0700Z TO 1900Z DAILY 01 THRU 05,  
07 AND 08 APR IN AREA BOUND BY 38-55-10N 008-42-30E,  
38-50-00N 008-48-00E, 38-46-15N 008-48-00E,  
38-43-30N 008-41-15E, 38-49-00N 008-26-00E,  
38-56-12N 008-27-06E, 38-57-00N 008-37-06E.
2. CANCEL THIS MSG 082000Z APR.

(281210Z MAR 2003)

653/03(53). SARDEGNA-EAST COAST. MISSILES. ROCKETS.

1. HAZARDOUS OPERATIONS 0800Z TO 1630Z DAILY:
  - A. 01 THRU 04, 07 THRU 11, 14 THRU 18,  
22 THRU 24 AND 28 THRU 30 APR IN AREA BOUND BY  
40-00N 010-00E, 40-00N 010-30E, 39-10N 010-30E,  
39-10N 010-00E, 39-26N 009-38E, 39-38N 009-38E.
  - B. 07 THUR 11, 14 THRU 18, 23, 24, 29 AND 30 APR  
IN AREA BOUND BY  
40-15N 010-00E, 40-15N 011-31E, 40-11N 011-33E,  
39-32N 011-38E, 38-52N 011-28E, 39-10N 010-00E,  
39-28N 009-38E, 39-43N 009-40E, 40-15N 010-00E.
  - C. 07 THRU 11 AND 14 THRU 18 APR IN AREA BOUND BY  
40-37N 009-50E, 40-40N 010-35E, 40-40N 010-50E,  
39-20N 010-50E, 39-20N 009-47E, 39-24N 009-40E.
  - D. 07 THRU 11 AND 14 THRU 18 APR IN AREA BOUND BY  
40-37N 009-54E, 40-42N 011-17E, 40-11N 011-33E,  
39-46N 011-36E, 39-02N 010-17E, 39-04N 010-08E,  
39-26N 009-38E.
2. CANCEL THIS MSG 301730Z APR.

(281220Z MAR 2003)

654/03(52,53). SARDEGNA-WEST COAST.

1. OCEANOGRAPHIC OPERATIONS IN PROGRESS UNTIL 17 APR BY M/V URANIA VICINITY OF TRACKLINE JOINING  
38-54N 009-00E, 37-46N 009-00E, 38-25N 008-21E,  
38-47N 008-18E, 38-36N 008-09E, 39-00N 008-15E,  
38-40N 007-54E, 39-08N 008-09E, 39-01N 007-39E,  
39-15N 008-01E, 39-30N 008-21E, 39-30N 007-36E,  
39-45N 008-15E, 39-45N 007-43E, 40-00N 007-10E,  
40-15N 008-10E, 40-15N 007-52E, 40-30N 008-04E,  
40-30N 007-37E.
2. CANCEL HYDROLANT 622/03 AND 624/03.
3. CANCEL THIS MSG 18 APR.

(281308Z MAR 2003)

655/03 thru 658/03. CANCELED.

659/03(GEN).

1. HYDROLANT MESSAGES IN FORCE 291200Z MAR 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.  
2003 SERIES: 368(54), 369(51), 381(56), 382(24,25), 383(57),  
390(22), 404(37), 427(56), 433(GEN), 452(53), 463(52,53),  
476(54), 481(37), 483(57), 484(52,53), 485(53), 490(51),  
496(55), 522(24), 533(53), 536(36), 544(55), 551(53),  
553(35,36), 563(37), 573(55), 577(51), 579(37), 580(53),  
583(GEN), 589(54), 599(GEN), 602(54,56), 604(26,27),  
610(GEN), 615(54,56), 621(52), 629(53), 630(23,29), 631(55),  
632(37), 633(37), 635(51), 636(37), 639(54), 642(37,43),  
643(55), 644(55), 647(24), 648(24), 649(24), 650(24),  
651(37), 652(52,53), 653(53), 654(52,53), 657(24), 658(36).
2. THE SUMMARY OF ALL HYDROLANT MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.
3. CANCEL HYDROLANT 607/03, 656/03.

(291210Z MAR 2003)

660/03(52). ALGERIA.

- CHART 52240 (9TH ED).
1. POINTE COLOMBI LIGHT 36-26.7N 000-56.5E UNRELIABLE.
  2. CANCEL HYDROLANT 621/03.

(291250Z MAR 2003)

661/03 thru 670/03. CANCELED.

671/03(53). SICILIA-SOUTHEAST COAST. GUNNERY.

1. GUNNERY EXERCISES 0400Z TO 2000Z DAILY  
01 THRU 04, 08 THRU 11, 15 THRU 18,  
22 THRU 25, 29 AND 30 APR WITHIN  
1.5 MILES OF 36-39-19N 015-00-53E.
2. CANCEL THIS MSG 302100Z APR.

(311430Z MAR 2003)

672/03(23). SOUTH ATLANTIC.

- MAN OVERBOARD VICINITY 50-42.9S 063-40.0W.  
VESSELS IN VICINITY REQUESTED TO KEEP  
A SHARP LOOKOUT, ASSIST IF POSSIBLE.  
REPORTS TO ANY COASTAL RADIO STATION.

(311525Z MAR 2003)

673/03(55). BLACK SEA. GUNNERY. MISSILES.

1. HAZARDOUS OPERATIONS 030800Z TO 031230Z AND  
0630Z TO 1600Z DAILY 04 AND 05 APR IN AREA BOUND  
BY 44-43.8N 032-52.2E, 44-34.8N 032-37.4E,  
44-39.0N 032-11.5E, 44-48.4N 032-08.2E,  
45-00.2N 032-14.2E, 44-52.2N 032-41.6E.
2. CANCEL THIS MSG 051700Z APR.

(311640Z MAR 2003)

674/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 02 UNUSABLE 031915Z TO 040715Z APR.
2. CANCEL HYDROLANT 533/03(53), OPERATIONS COMPLETED.
3. CANCEL THIS MSG 040815Z APR.

(311740Z MAR 2003)

675/03(37). ENGLISH CHANNEL.

- SURVEY OPERATIONS IN PROGRESS UNTIL  
FURTHER NOTICE BY M/V ELINOR TOWING  
CABLE IN AREA BOUND BY 50-09N 001-00W,  
50-30N 001-00W, 50-37N 000-20W,  
50-14N 000-20W. WIDE BERTH REQUESTED.

(311900Z MAR 2003)

676/03. CANCELED.

677/03(24). BRAZIL-SOUTH COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 040159Z APR BY M/V RAMFORM VIKING TOWING TEN 4600 METER LONG CABLES IN AREA BOUND BY 24-00S 042-24W, 24-00S 043-02W, 23-45S 043-05W, 23-45S 042-24W. FIVE MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 650/03.
3. CANCEL THIS MSG 040259Z APR.

(010239Z APR 2003)

678/03(24). BRAZIL-EAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 040159Z APR BY M/V CGG FOHN TOWING SIX 7408 METER LONG CABLES IN AREA BOUND BY 19-45S 039-54W, 19-45S 039-10W, 20-05S 039-10W, 20-05S 040-00W. FOUR MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 665/03.
3. CANCEL THIS MSG 040259Z APR.

(010243Z APR 2003)

679/03(24). BRAZIL-EAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 040159Z APR BY M/V CGG ALIZE TOWING 9260 METER LONG CABLE IN AREA BETWEEN 18-55S 19-50S AND 039-20W 038-25W. SIX MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 649/03.
3. CANCEL THIS MSG 040259Z APR.

(010245Z APR 2003)

680/03(GEN). NORTH ATLANTIC. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 061351Z TO 061838Z APR, ALTERNATE 071347Z TO 071834Z APR IN AREAS BOUND BY:
  - A. 28-39N 080-39W, 28-42N 080-26W, 28-31N 079-10W, 28-26N 079-10W, 28-25N 080-27W, 28-29N 080-40W.
  - B. 28-49N 078-08W, 28-12N 071-21W, 27-34N 070-04W, 27-06N 070-19W, 28-06N 078-14W.
  - C. 26-27N 062-04W, 25-42N 058-28W, 24-49N 058-42W, 25-41N 062-17W.
  - D. 21-40N 043-10W, 13-48N 026-02W, 12-31N 026-54W, 20-13N 043-50W, 21-40N 043-10W.
2. CANCEL THIS MSG 071934Z APR.

(010750Z APR 2003)

681/03. CANCELED.

682/03(57). SOUTH ATLANTIC.

1. S/V ISLERO, WHITE HULL, UNREPORTED CAPE TOWN TO ST HELENA ISLAND. LAST KNOWN POSITION 20-00S 000-00 ON 25 MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO CAPE TOWN RADIO.
2. CANCEL HYDROLANT 670/03.

(011110Z APR 2003)

683/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.

1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY UNUSABLE 032100Z TO 032300Z APR. FOR URGENT SERVICE CONTACT NIMA NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149, E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.
2. CANCEL THIS MSG 040001Z APR.

(011940Z APR 2003)

684/03(23,29). SOUTH ATLANTIC. ICE.

1. ICEBERGS REPORTED ON 01 APR IN:
  - A. A-43B, 13 MILES BY 40 MILES IN 54-24S 039-12W.
  - B. A-43C, 24 MILES BY 41 MILES IN 58-48S 036-48W.
  - C. A-43G, EIGHT MILES BY 49 MILES IN 50-18S 040-06W.
  - D. A-43I, TWO MILES BY 12 MILES IN 56-42S 033-42W.
  - E. A-46, FOUR MILES BY 11 MILES IN 53-48S 043-54W.
  - F. A-47, NINE MILES BY 14 MILES IN 52-24S 046-54W.
  - G. B-09A, 15 MILES BY 22 MILES IN 51-54S 032-54W.
2. CANCEL THIS MSG 09 APR.

(020217Z APR 2003)

- 685/03(35). SCOTLAND-NORTH COAST.  
 CHART 35200 (7TH ED).  
 DUNCANSBY HEAD LIGHT 58-38.6N 003-01.5W UNRELIABLE.  
 (020820Z APR 2003)
- 686/03(55). BLACK SEA. HAZARDOUS OPERATIONS.  
 1. HAZARDOUS OPERATIONS 1000Z TO 1500Z AND 1600Z TO 2200Z  
 DAILY 07 THRU 20 APR IN AREA BOUND BY  
 44-23.0N 028-42.5E, 44-27.0N 029-01.0E,  
 44-20.0N 029-01.5E, 44-13.0N 028-56.5E.  
 2. CANCEL THIS MSG 202300Z APR.  
 (020910Z APR 2003)
- 687/03(56). LIBYA. HAZARDOUS OPERATIONS.  
 1. HAZARDOUS OPERATIONS IN PROGRESS UNTIL  
 FURTHER NOTICE IN AREA BOUND BY  
 32-47N 012-50E, 32-49N 012-57E,  
 33-00N 012-57E, 33-00N 012-50E.  
 2. CANCEL HYDROLANT 661/03(52).  
 3. CANCEL HYDROLANT 681/03(53), AID RESTORED.  
 (021300Z APR 2003)
- 688/03(56). LIBYA.  
 SUBMARINE CABLE OPERATIONS IN PROGRESS UNTIL FURTHER  
 NOTICE BY CABLESHIP ILE DE SEIN VICINITY  
 32-41N 014-20E. WIDE BERTH REQUESTED.  
 (021425Z APR 2003)
- 689/03(36). IRISH SEA.  
 CHART 36122 (12TH ED).  
 FOG SIGNAL AT THE SKERRIES LIGHT 53-25N 004-36W INOPERATIVE.  
 (030408Z APR 2003)
- 690/03(24). BRAZIL-NORTH COAST.  
 1. SEISMIC SURVEY IN PROGRESS UNTIL 050400Z APR  
 BY M/V BULLDOG TOWING FIVE 6000 METER  
 LONG CABLES IN AREA BOUND BY  
 03-09.2S 038-52.0W, 03-11.2S 038-50.4W,  
 03-07.6S 038-46.1W, 03-05.6S 038-47.8W.  
 SIX MILE BERTH REQUESTED.  
 2. CANCEL HYDROLANT 676/03.  
 3. CANCEL THIS MSG 050500Z APR.  
 (030420Z APR 2003)
- 691/03(37). DOVER STRAIT.  
 SURVEY OPERATIONS IN PROGRESS UNTIL FURTHER  
 NOTICE BY M/V CONFIDANTE WITHIN 2.5 MILES  
 OF 51-14N 001-51E. WIDE BERTH REQUESTED.  
 (030820Z APR 2003)
- 692/03((24). NORTH ATLANTIC. ROCKETS.  
 1. HAZARDOUS OPERATIONS 2000Z TO 0230Z COMMENCING  
 DAILY 08 APR THRU 08 MAY IN AREAS:  
 A. WITHIN 12 MILES OF COASTLINE BETWEEN  
 05-19N 052-47W AND 05-04N 052-30W.  
 B. BOUND BY 05-10N 047-12W, 04-39N 047-14W,  
 04-43N 048-12W, 05-14N 048-10W.  
 C. BOUND BY 04-54N 045-53W, 04-37N 045-54W,  
 04-44N 047-24W, 05-01N 047-23W.  
 2. CANCEL THIS MSG 090330Z MAY.  
 (030950Z APR 2003)

SECTION III

NM 16/03

NAVAREA XII

Messages in force 031200Z April 2003:

2001 series	178(GEN)	2003 series	84(GEN)	88(GEN)	91(18)
298(GEN)	260(GEN)	76(GEN)	85(19)	89(GEN)	
2002 series	339(GEN)	78(GEN)	87(GEN)	90((83)	

The summary of all NAVAREA XII messages in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarter are issued in NM 13/03.

NAVAREA XII WARNINGS issued from 271200Z March to 031200Z April 2003.

87/03(GEN).

1. NAVAREA XII MESSAGES IN FORCE 291000Z MAR 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN. 2003 SERIES: 76(GEN), 78(GEN), 79(GEN), 84(GEN), 85(19), 86(18).
2. THE SUMMARY OF ALL NAVAREA XII MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.
3. CANCEL NAVAREA XII 80/03.

(291020Z MAR 2003)

88/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 02 UNUSABLE 031915Z TO 040715Z APR.
2. CANCEL THIS MSG 040815Z APR.

(311745Z MAR 2003)

89/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.

1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY UNUSABLE 032100Z TO 032300Z APR. FOR URGENT SERVICE CONTACT NIMA NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149, E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.
2. CANCEL THIS MSG 040001Z APR.

(011945Z APR 2003)

90/03((83). NORTH PACIFIC. ROCKETS.

1. HAZARDOUS OPERATIONS 2000Z TO 0230Z COMMENCING DAILY 08 APR THRU 08 MAY IN AREA BOUND BY 06-46N 130-05W, 04-25N 129-54W, 03-25N 146-31W, 05-46N 146-42W.
2. CANCEL THIS MSG 090330Z MAY.

(031010Z APR 2003)

91/03(18). EASTERN NORTH PACIFIC. MISSILES.

1. INTERMITTENT MISSILE FIRING OPERATIONS 0001Z TO 2359Z DAILY MONDAY THRU SUNDAY IN THE NAVAL AIR WARFARE CENTER SEA RANGE. THE MAJORITY OF MISSILE FIRINGS TAKE PLACE 1400Z TO 2359Z AND 0001Z TO 0200Z DAILY MONDAY THRU FRIDAY. THE SEA RANGE IS BOUND AS FOLLOWS:
 

A. 34-02N 119-04W.	M. THENCE THREE NAUTICAL MILES FROM AND PARALLEL
B. 33-52N 119-06W.	TO THE SHORELINE.
C. 33-29N 119-07W.	N. 34-24N 120-30W.
D. 33-29N 118-37W.	O. 34-08N 120-26W.
E. 33-20N 118-37W.	P. 34-08N 119-40W.
F. 32-11N 120-16W.	Q. 34-00N 119-40W.
G. 31-54N 121-35W.	R. 34-06N 119-13W.
H. 35-09N 123-39W.	S. 34-06N 119-11W.
I. 35-29N 123-00W.	T. 34-07N 119-10W.
J. 35-04N 122-43W.	U. 34-07N 119-07W.
K. 35-57N 121-32W.	V. 34-04N 119-04W.
L. 34-59N 120-42W.	
2. VESSELS MAY BE REQUESTED TO ALTER COURSE WITHIN THE ABOVE AREA DUE TO FIRING OPERATIONS AND ARE REQUESTED TO CONTACT PLEAD CONTROL ON 5081.5 KHZ (5080 KHZ) OR 3238.5 KHZ (3237 KHZ) SECONDARY OR 156.8 MHZ (CH 16) OR 127.55 MHZ BEFORE ENTERING THE ABOVE BOUNDARIES AND MAINTAIN CONTINUOUS GUARD WHILE WITHIN THE RANGE.
3. VESSELS INBOUND AND OUTBOUND FOR SOUTHERN CALIFORNIA PORTS WILL CREATE THE LEAST INTERFERENCE TO FIRING OPERATIONS DURING THE SPECIFIC PERIODS, AS WELL AS ENHANCE THE VESSEL'S SAFETY WHEN PASSING THROUGH THE VICINITY OF THE SEA RANGE. IF THEY WILL TRANSIT VIA THE SANTA BARBARA CHANNEL AND WITHIN NINE MILES OFFSHORE VICINITY OF POINT MUGU OR CROSS THE AREA SOUTHWEST OF SAN NICOLAS ISLAND BETWEEN SUNSET AND SUNRISE.
4. CANCEL NAVAREA XII 86/03.

(031020Z APR 2003)

## SECTION III

NM 16/03

## HYDROPACS

Messages in force 031200Z April 2003:

2000 series	2057(71,93)	301(75)	427(71,74)	525(73,74)	569(62)
597(73)	2111(62)	303(81)	434(61)	526(22)	570(62)
1557(94)	2191(22)	304(93)	436(61)	527(22)	571(GEN)
2001 series	2199(63)	310(94,97)	437(61)	528(22)	572(94,97)
1556(71)	2277(GEN)	311(81)	445(96)	545(81,97)	573(96)
1636(96)	2330(62)	317(81)	452(81)	547(63)	574(22)
1647(GEN)	2339(63)	318(93)	461(93)	548(63)	575(81,92)
1976(62)	2402(22)	320(93)	470(61)	549(63)	576(81)
2002 series	2432(22)	327(62)	480(74)	550(81)	580(62)
146(62)	2003 series	328(97)	482(GEN)	551(GEN)	581(62)
196(61)	3(63)	361(63)	487(61)	553(94,95)	582(GEN)
205(GEN)	74(63)	365(63)	491(62)	554(94,95)	583(63)
206(GEN)	100(29)	375(97)	495(62)	555(95)	584(63)
207(93)	129(63)	379(81)	496(62)	556(62)	585(63)
352(73)	151(63)	380(71)	497(62)	557(63)	586(GEN)
403(72,73)	167(95)	386(19,81)	502(GEN)	560(63)	587(62)
637(75)	171(71,93)	387(74)	505(54,56)	562(81)	588(23,29)
828(62)	197(71)	407(81)	506(62)	564(61)	589(76)
1315(62)	207(62)	411(81)	513(74)	565(95)	590(63)
1661(GEN)	215(GEN)	418(75)	514(73)	566(95)	591(62)
1765(71)	268(62)	423(76)	515(73)	567(95)	
1843(22)	298(63)	426(61)	522(54,56)	568(63)	

The summary of all HYDROPACS in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarter are issued in NM 13/03.

**HYDROPAC WARNINGS issued from 271200Z March to 031200Z April 2003.**

556/03(62). PERSIAN GULF.

- IRAQI PARAMILITARY FORCES HAVE CONDUCTED A NUMBER OF ATTACKS IN DIRECT VIOLATION OF THE LAW OF ARMED CONFLICT. THIS HAS BEEN CONFIRMED BY INTERNATIONAL PRESS REPORTING. THESE ACTS INCLUDE DISGUIISING ARMED COMBATANTS AS CIVILIANS OR OTHER NATION'S MILITARY, USING CIVILIANS AS HUMAN SHIELDS, FEIGNING SURRENDER OR REQUESTING HUMANITARIAN ASSISTANCE BEFORE ATTACKING COALITION FORCES.
- IRAQI PARAMILITARY FORCES COULD USE THESE SAME TACTICS AGAINST COALITION NAVAL FORCES OPERATING IN THE NORTHERN PERSIAN GULF AND UPON THE RECENTLY SECURED MINA AL-BAKR OIL TERMINAL (MABOT) AND KHOR AL-AMAYA OIL TERMINAL (KAAOT).
- ALL VESSELS AND AIRCRAFT OPERATING IN THE PERSIAN GULF ARE TO REMAIN CLEAR OF COALITION NAVAL UNITS AND MABOT AND KAAOT. FOR YOUR OWN SAFETY, BE AWARE OF THE COALITION'S HEIGHTENED STATE OF AWARENESS CONCERNING THE POTENTIAL THREAT POSED BY IRAQI PARAMILITARY FORCES. WE STRONGLY RECOMMEND THAT ALL VESSELS CONTACT COALITION SHIPS ON BRIDGE TO BRIDGE CHANNEL 16 IF THEY MUST OPERATE IN PROXIMITY TO COALITION UNITS.
- COALITION NAVY AND MARINE FORCES WILL ONLY ATTACK OPPOSING MILITARY FORCES OR UNKNOWN VESSELS DEMONSTRATING A THREAT OF IMMINENT ATTACK AGAINST COALITION FORCES OR PROPERTY. HOWEVER, IF VESSELS OF THE MARITIME SHIPPING COMMUNITY OR COASTAL MERCHANTS ARE USED FOR MILITARY PURPOSES, THESE VESSELS WILL BE SUBJECT TO BEING CONFISCATED OR DESTROYED BY COALITION FORCES. THE COALITION INTENDS NO HARM OR INJURY TO INNOCENTS AND NONCOMBATANTS.
- IT IS IMPERATIVE FOR THE MARITIME COMMUNITY AND COASTAL MERCHANTS TO AVOID INTERFERENCE WITH ANY COALITION OPERATIONS IN YOUR AREA SO YOU ARE NOT MISTAKENLY IDENTIFIED AS A MILITARY TARGET.

(271150Z MAR 2003)

557/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

- HAZARDOUS OPERATIONS 0230Z TO 1230Z DAILY 01 THRU 07 APR IN AREA BETWEEN 15-11N 15-13N AND 073-52E 073-57E.
- CANCEL HYDROPAC 541/03, VESSEL LOCATED SAFE.
- CANCEL THIS MSG 071330Z APR.

(271320Z MAR 2003)

558/03 and 559/03. CANCELED.

560/03(63). INDIA-EAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 20 MAY  
BY M/V NORDIC EXPLORER TOWING THREE MILE  
LONG CABLE IN AREA BOUND BY  
17-06.6N 082-39.7E, 17-06.6N 082-44.4E,  
16-44.2N 082-44.4E, 16-33.7N 082-31.2E,  
16-33.7N 082-22.3E, 16-42.3N 082-22.3E.  
WIDE BERTH REQUESTED.
2. CANCEL THIS MSG 21 MAY.

(271800Z MAR 2003)

561/03. CANCELED.

562/03(81). NORTH PACIFIC.

- DISTRESS SIGNAL RECEIVED ON 121.5 MHZ IN 19-31N 139-27E  
AT 280509Z MAR. VESSELS IN VICINITY REQUESTED  
TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.  
REPORTS TO JAPAN COAST GUARD.

(280705Z MAR 2003)

563/03. CANCELED.

564/03(61). INDIAN OCEAN. ORDNANCE.

1. UNDERWATER ORDNANCE DETONATIONS 010001Z TO  
302359Z APR IN AREA BETWEEN  
09-00S 13-00S AND 070-00E 073-00E.
2. CANCEL THIS MSG 010059Z MAY.

(280950Z MAR 2003)

565/03(95). SEA OF JAPAN. ORDNANCE.

1. BOMBING EXERCISES 0000Z TO 0700Z DAILY  
01 THRU 04, 07 THRU 12, 14 THRU 19,  
21 THRU 26 AND 28 THRU 30 APR IN AREA  
BOUND BY 38-08N 129-51E, 38-08N 130-10E,  
37-39N 130-10E, 37-42N 129-51E.
2. CANCEL THIS MSG 300800Z APR.

(281140Z MAR 2003)

566/03(95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY  
01 THRU 04, 07 THRU 12, 14 THRU 19,  
21 THRU 26 AND 28 THRU 30 APR IN AREA  
BETWEEN 35-35N 36-00N AND 125-00E 125-30E.
2. CANCEL THIS MSG 301400Z APR.

(281145Z MAR 2003)

567/03(95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0000Z TO 1000Z DAILY  
01 THRU 04, 07 THRU 12, 14 THRU 19,  
21 THRU 26 AND 28 THRU 30 APR IN AREA  
BOUND BY 36-35.0N 125-36.0E, 36-35.0N 124-50.0E,  
37-06.0N 124-50.0E, 37-10.2N 125-36.0E.
2. CANCEL HYDROPAC 521/03(GEN), OPERATIONS COMPLETED.
3. CANCEL THIS MSG 301100Z APR.

(281150Z MAR 2003)

568/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0330Z TO 1530Z DAILY 01 AND 04 APR  
IN AREA BOUND BY 09-57.6N 075-59.5E, 09-57.7N 076-14.2E,  
09-40.0N 076-14.6E, 09-42.5N 076-09.5E.
2. CANCEL THIS MSG 041630Z APR.

(281730Z MAR 2003)

569/03(62). PERSIAN GULF.

- CHART 62032 (16TH ED).
1. DANGEROUS WRECK IN 29-08.8N 049-15.7E  
MARKED BY BUOY WR1, Q, IN 29-09.2N 049-15.6E.
  2. CANCEL HYDROPAC 559/03(81), SIGNAL CEASED.

(282207Z MAR 2003)

570/03(62). PERSIAN GULF.

1. COALITION MARITIME FORCES CONTINUE CLEARING OPERATIONS  
IN IRAQI WATERWAYS. COASTAL MERCHANTS AND THE MARITIME  
SHIPPING AGENCIES THAT HAVE VESSELS IN THE  
KHOR ABD ALLAH WATERWAY ARE REQUESTED TO IMMEDIATELY  
CONTACT THEIR VESSELS AND DIRECT THEM TO PROCEED SOUTH  
IN ORDER TO DEPART IRAQI WATERWAYS. INFORM YOUR VESSELS  
TO CONTACT COALITION UNITS ON BRIDGE TO BRIDGE RADIO  
FOR SPECIFIC INSTRUCTIONS. THIS ADVISORY ALSO INCLUDES

SECTION III

NM 16/03

- ALL SHIPS NORTH OF UMM QASR, YOU ARE NOW REQUESTED TO EXIT THE KHOR ABD ALLAH WATERWAY.
2. COALITION MARITIME FORCES WILL CONDUCT A ROUTINE BOARDING TO ENSURE THE SAFETY OF BOTH THE CREW AND VESSEL. UPON COMPLETION OF THE BOARDING, VESSELS WILL BE GIVEN NAVIGATION INSTRUCTIONS THAT WILL KEEP THEM OUT OF HARMS WAY. IF VESSELS OF THE MARITIME SHIPPING COMMUNITY OR COASTAL MERCHANTS ARE USED FOR MILITARY PURPOSES, THESE VESSELS WILL BE CONFISCATED OR DESTROYED BY THE COALITION.
  3. VESSELS SHOULD REMAIN CLEAR FOR THE DURATION OF COALITION MILITARY OPERATIONS, SO AS TO ENSURE THEIR SAFETY, THE SAFETY OF THEIR VESSEL, AND PASSENGERS. YOU WILL BE GIVEN INSTRUCTIONS FROM COALITION FORCES AS SOON AS POSSIBLE ON WHEN TO RESUME MARITIME OPERATIONS IN AND AROUND IRAQI WATERS. THEIR GOAL IS TO OPEN THE WATERWAYS TO LEGITIMATE MARITIME SHIPPING AS QUICKLY AS POSSIBLE.
  4. CANCEL HYDROPAC 507/03.

(290840Z MAR 2003)

571/03(GEN).

1. HYDROPAC MESSAGES IN FORCE 291200Z MAR 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN. 2003 SERIES: 298(63), 301(75), 303(81), 304(93), 310(94.97), 311(81), 317(81), 318(93), 320(93), 327(62), 328(97), 336(71), 355(62), 361(63), 362(95), 363(95), 365(63), 375(97), 379(81), 380(71), 381(61), 386(19,81), 387(74), 407(81), 411(81), 418(75), 423(76), 426(61), 427(71,74), 434(61), 436(61), 437(61), 445(96), 452(81), 461(93), 470(61), 471(62), 480(74), 482(GEN), 484(62), 487(61), 491(62), 492(22), 495(62), 496(62), 497(62), 502(GEN), 504(76), 505(54,56), 506(62), 508(GEN), 513(74), 514(73), 515(73), 522(54,56), 525(73,74), 526(22), 527(22), 528(22), 534(62), 535(23,29), 540(62), 545(81,97), 547(63), 548(63), 549(63), 550(81), 551(GEN), 553(94,95), 554(94,95), 555(95), 556(62), 557(63), 558(63), 560(63), 562(81), 564(61), 565(95), 566(95), 567(95), 568(63), 569(62), 570(62).
2. THE SUMMARY OF ALL HYDROPAC MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.
3. CANCEL HYDROPAC 109/03, 234/03, 237/03, 250/03, 251/03, 253/03, 280/03, 281/03, 516/03.

(291220Z MAR 2003)

572/03(94,97). EAST CHINA SEA.

1. UNDERWATER OPERATIONS 30 MAR THRU 08 APR IN AREA BETWEEN 29-30N 29-40E AND 124-10E 124-20E.
2. CANCEL THIS MSG 09 APR.

(291310Z MAR 2003)

573/03(96). SEA OF JAPAN. ZALIV PETRA VELIKOGO. CHART 96041 (11TH ED).

1. NAVIGATION PROHIBITED UNTIL 071300Z APR IN AREA BOUND BY 42-43.5N 132-04.0E, 42-46.5N 131-55.0E, 42-51.0N 132-04.0E, 42-43.5N 132-10.0E.
2. CANCEL THIS MSG 071400Z APR.

(291320Z MAR 2003)

574/03(22). SOUTH PACIFIC. CHILE.

S/V VIRACOAHA II, NINE PERSONS ON BOARD, UNREPORTED VALPARAISO TO ISLA DE PASCUA. LAST KNOWN POSITION 30-15S 075-20W AT 281915Z MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO ANY COASTAL RADIO STATION.

(292248Z MAR 2003)

575/03(81,92). NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 121 MHZ IN 10-22.8N 129-53.4E. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO PAC RCC, TELEX: 392401, PHONE: 808 531 1112, FAX: 808 541 2123.

(301500Z MAR 2003)

576/03(81). NORTH PACIFIC. MARIANA ISLANDS. ORDNANCE.

1. BOMBING EXERCISES 31 MAR THRU 05 APR WITHIN TEN MILES OF 16-01N 146-04E.
2. CANCEL THIS MSG 06 APR.

(301520Z MAR 2003)

577/03 thru 579/03. CANCELED.

580/03(62). PERSIAN GULF.

1. DERELICT VESSEL PARTIALLY SUBMERGED AND ADRIFT  
VICINITY 29-16.5N 049-12.0E AT 300630Z MAR.
2. CANCEL HYDROPAC 471/03(62), STATION RESTORED.
3. CANCEL HYDROPAC 577/03(61), SEARCH SUSPENDED.
4. CANCEL HYDROPAC 578/03(73), PERSONS RESCUED.
5. CANCEL HYDROPAC 579/03(93), VESSEL LOCATED.
6. CANCEL THIS MSG 07 APR.

(310920Z MAR 2003)

581/03(62). PERSIAN GULF.

DUE TO NUMEROUS INQUIRIES REGARDING THE STATUS OF  
UMM QASR PORT IN IRAQ. THIS IS THE CURRENT SITUATION:

- A. UMM QASR PORT HAS BEEN SECURED BY COALITION MILITARY FORCES,  
BUT IT IS NOT YET CLEARED FOR NORMAL COMMERCIAL OPERATIONS.
- B. THUS FAR, ONE SHIP HAS DELIVERED HUMANITARIAN AID CARGO TO  
UMM QASR, A UK ROYAL FLEET NAVY AUXILIARY SHIP DESIGNED  
FOR SHALLOW WATER OPERATIONS.
- C. THERE IS STILL A LOW LEVEL THREAT OF IRAQI UNDERWATER  
EXPLOSIVES, WHICH COALITION FORCES ARE NEUTRALIZING  
AS QUICKLY AS POSSIBLE.
- D. COALITION FORCES ARE CURRENTLY ENGAGED IN CLEARING THE  
AREA NORTH OF UMM QASR OF COMMERCIAL VESSELS, ALL OF WHICH  
WILL BE EXITING VIA THE KHOR ABD-ALLAH WATERWAY. THESE SHIPS  
WILL BE DEPARTING IRAQI WATERS OVER THE NEXT FEW DAYS AND  
THIS ACTIVITY WILL BE CLOSELY MONITORED BY COALITION FORCES.
- E. PORT SERVICES REMAIN EXTREMELY LIMITED AT THIS EARLY STAGE  
AND IT IS DOUBTFUL THAT COMMERCIAL SHIPS COULD DISCHARGE  
CARGO EVEN IF THEY WERE ALLOWED ENTRY TO THE PORT. THE ACTUAL  
AVAILABILITY OF TUGS, PILOTS, STEVEDORE SERVICES, CRANE AND  
CARGO HANDLING EQUIPMENT AND MACHINERY OPERATIONS IS STILL  
BEING ASCERTAINED. IN ADDITION, BECAUSE THERE ARE CURRENTLY  
NO UN OIL FOR FOOD INSPECTORS PRESENT AT UMM QASR,  
ADMINISTRATIVE PROCEDURES TO VERIFY CARGO DELIVERY HAVE YET  
TO BE PUT BACK IN PLACE. MARLO UNDERSTANDS THE REGIONAL  
SHIPPING COMMUNITY'S DESIRE TO RESUME NORMAL OPERATIONS AT  
UMM QASR. COALITION FORCES ARE WORKING AS QUICKLY AS POSSIBLE  
TOWARD THIS GOAL, SINCE THE DELIVERY OF HUMANITARIAN CARGO  
TO THE IRAQI PEOPLE REMAINS A TOP PRIORITY. HOWEVER, MARLO  
ASKS FOR YOUR CONTINUED PATIENCE AS THE ABOVE ISSUES ARE  
RESOLVED, IN ORDER TO ENSURE BOTH SAFE PASSAGE AND EFFICIENT  
OPERATIONS. THIS IS A DYNAMIC, RAPIDLY CHANGING SITUATION,  
BUT WE WILL ATTEMPT TO KEEP YOU ACCURATELY ADVISED THROUGH  
THESE CHANNELS. ONCE UMM QASR IS RE-OPENED FOR BUSINESS,  
MARLO WILL ADVISE ON PORT STATUS AND PROCEDURES FOR ENTRY.

(311050Z MAR 2003)

582/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 02 UNUSABLE 031915Z TO 040715Z APR.
2. CANCEL HYDROPAC 492/03(22), 574/03(22) REFERS.
3. CANCEL THIS MSG 040815Z APR.

(311750Z MAR 2003)

583/03(63). INDIA-WEST COAST. ROCKETS.

1. HAZARDOUS OPERATIONS 1330Z TO 1600Z DAILY  
02 AND 03 APR WITHIN 75 MILES OF  
08-31.9N 076-52.1E.
2. CANCEL THIS MSG 031700Z APR.

(010910Z APR 2003)

584/03(63). INDIA-EAST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 030230Z TO 030530Z AND  
031230Z TO 031430Z APR IN AREA BOUND BY  
17-42.2N 083-18.6E, 17-42.1N 083-29.9E,  
17-36.7N 083-28.5E, 17-32.7N 083-24.3E.
2. CANCEL THIS MSG 031530Z APR.

(010920Z APR 2003)

585/03(63). BAY OF BENGAL.

1. GEOPHYSICAL SURVEY IN PROGRESS UNTIL 07 APR  
BY M/V VOLANS IN AREA BOUND BY 19-57N 092-41E,  
19-37N 092-29E, 19-14N 093-04E, 19-32N 093-16E.  
TWO MILE BERTH REQUESTED.
2. CANCEL THIS MSG 08 APR.

(011320Z APR 2003)

586/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.

1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY  
UNUSABLE 032100Z TO 032300Z APR. FOR URGENT SERVICE CONTACT NIMA  
NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149,  
E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.
2. CANCEL THIS MSG 040001Z APR.

(011950Z APR 2003)

587/03(62). IRAQ. KHAWR ABD ALLAH.

CHART 62434 (9TH ED).

1. DEPTH 4 METERS WK IN 29-48-39N 048-29-09E.
2. DEPTH 6 METERS WK IN 29-48-37N 048-28-52E.
3. BUOY 10 RELOCATED TO 29-48-27N 048-28-36E (PA).
4. BUOY 11 RELOCATED TO 29-48-43N 048-28-34E (PA).

(012153Z APR 2003)

588/03(23,29). SOUTH ATLANTIC. ICE.

1. ICEBERGS REPORTED ON 01 APR IN:

- A. A-38A, 22 MILES BY 48 MILES IN 61-12S 051-48W.
- B. A-38B, 22 MILES BY 25 MILES IN 62-30S 053-18W.
- C. A-38C, SEVEN MILES BY 11 MILES IN 60-12S 048-30W.
- D. A-38D, TWO MILES BY TEN MILES IN 63-06S 052-24W.
- E. A-43A, 14 MILES BY 35 MILES IN 67-24S 058-54W.
- F. A-43E, TEN MILES BY 14 MILES IN 68-24S 060-00W.
- G. A-43F, 22 MILES BY 44 MILES IN 66-30S 059-48W.
- H. A-43J, FIVE MILES BY 17 MILES IN 67-30S 060-30W.
- I. A-48, NINE MILES BY TEN MILES IN 63-12S 051-42W.
- J. A-49, ONE MILE BY TEN MILES IN 63-06S 052-00W.
- K. A-50, ONE MILE BY TEN MILES IN 63-30S 053-06W.
- L. A-51, TWO MILES BY 14 MILES IN 67-18S 060-30W.
- M. A-52, EIGHT MILES BY 22 MILES IN 65-30S 060-42W.

2. CANCEL THIS MSG 09 APR.

(020228Z APR 2003)

589/03(76). NEW ZEALAND. NORTH ISLAND-WEST COAST.

SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE BY  
M/V PACIFIC SWORD TOWING TWO MILE LONG CABLE IN  
AREA BETWEEN 39-00S 39-50S AND 172-40E 173-40E.  
WIDE BERTH REQUESTED.

(030840Z APR 2003)

590/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 080330Z TO 081230Z APR  
WITHIN 13 MILES OF 22-28.7N 069-04.0E.
2. CANCEL THIS MSG 081330Z APR.

(031110Z APR 2003)

591/03(62). RED SEA. SAUDI ARABIA.

1. LORAN-C STATION ASH SHAYKH HAMAYD, RATE 8830-Y,  
OFF AIR 0430Z TO 0435Z AND 1230Z TO 1235Z  
DAILY 06 THRU 18 APR.
2. CANCEL THIS MSG 181335Z APR.

(031120Z APR 2003)

### MARAD ADVISORIES

MARAD ADVISORIES rapidly disseminate information on government policy, danger and safety issues pertaining to vessel operations and other timely maritime matters. They are periodically issued by the U.S. Maritime Administration (MARAD) to vessel masters, operators, and other U.S. maritime interests.

The text of all in-force MARAD ADVISORIES may be obtained by accessing the NIMA Maritime Safety Information website ([http://164.214.12.145/warn/warn\\_j\\_query.html](http://164.214.12.145/warn/warn_j_query.html)), by referring to Section I (paragraph 50) of US Notice to Mariners 1/03 for those in-force as of 19 December 2002, or by contacting the Maritime Administration Office of Ship Operations, Code MAR-613, Room 2123, 400 Seventh Street S.W., Washington DC 20590, Telephone (202) 366-5735, FAX (202) 366-3954, TLX II 710-822-9426 (MARAD DOT WSH).

MARAD ADVISORIES in force 3 April 2003: 00-7, 01-1, 01-7, 02-2, 02-5, 02-7, 03-3 and 03-4.

### SPECIAL WARNINGS

SPECIAL WARNINGS, primarily intended to announce official government proclamations affecting shipping, are broadcast as needed. They are numbered consecutively and further promulgated in the Notice to Mariners.

The text of all in-force SPECIAL WARNINGS may be obtained by accessing the NIMA Maritime Safety Information website ([http://164.214.12.145/warn/warn\\_j\\_query.html](http://164.214.12.145/warn/warn_j_query.html)) or by referring to Section I (paragraph 7) of US Notice to Mariners 1/03 for those in-force as of 19 December 2002 and in Notice to Mariners 14/03.

SPECIAL WARNINGS in force 3 April 2003: 1, 29, 77, 81, 82, 89, 92, 95, 107, 108, 111, 113, 114, 115, 116, 117, 118, 119, 120 and 121.

**MARINE INFORMATION****ELECTRONIC CHART/PUBLICATION CORRECTION RECORD CARD**

A printable PDF version of the Chart/Publication Correction Record Card (NIMA Reference No. MISCP86609) can now be downloaded from the Maritime Safety Information Web site by selecting the *Miscellaneous Navigation Products* link. An electronic form is also provided for owners of the full version of Adobe Acrobat. Using the e-form, users can now manage and maintain their Chart/Publication Correction Record Cards electronically.

## MARINE INFORMATION REPORT AND SUGGESTION SHEET INSTRUCTIONS

We value your suggestions to improve our products. The Marine Information Report and Suggestion Sheet is provided for users to submit corrective information. Please be complete and accurate in your description/suggestion and include the information as detailed below:

**Observer:** name(s) of person(s) making observation and rank, rate or title.

**Ship/Organization:** name of vessel or organization.

**Address:** complete mailing address. Also include telephone number, fax, and/or e-mail address, if available, in case clarification is required.

**Date of Observation:** day, month and year at which the observation was made.

**Time of Observation:** local time at which the observation was made.

**Latitude/Longitude:** exact position of the observation expressed as accurately as possible.

**Datum:** horizontal datum to which the observed position is referred (e.g. WGS, NAD83, local foreign datum, etc.).

**Navigation System:** method used to determine the position of the observation (e.g. radar, GPS, Loran, etc.).

Include details about the equipment used, if deemed pertinent.

**Verified by Navigator:** indicate whether observation was verified by navigator.

**Product(s) Affected:** product number(s) and/or name(s) to which the observation applies (e.g. Chart 62400, Sailing Directions Pub. 127, etc.).

**Edition:** edition number and/or year of affected product.

**Latest correction applied:** the latest Notice to Mariners to which your copy of affected product has been corrected.

**Sounding sensor or method used:** equipment or method used to collect soundings. When reporting soundings, please provide an annotated echogram, if available, for verification.

**Soundings corrected for draft:** indicate whether soundings have been corrected for vessel's draft. If not, please include observed draft along with the details of information reported.

**Details of Information Reported:** use this space to provide details of the observation/suggestion. When referring to a charted feature, please describe it exactly as it appears on the chart. When referring to a publication, please indicate page number(s) and line number(s) or station number(s) as applicable. Use additional sheets as necessary and include diagrams, photocopies of the product(s) involved and/or photographs to describe observations in greater detail. If possible, include the designation, point of contact, telephone number, fax number and/or e-mail address of the local port authority to enable NIMA to update our records and obtain additional or later information.

**User Feedback:** use this space to provide feedback and suggestions for improving NIMA's products and services.

Please detach, fold and mail the pre-addressed form and include any other relevant material or supporting information.

Reports which present an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. In general, these hazards would include major aids to navigation anomalies, discovery of obstructions or shoals with depths of less than 30 meters, floating dangers to shipping, and any situation deemed critical to safety of life at sea. For further information consult Notice to Mariners No. 1, paragraph 44 (Worldwide Navigational Warnings Service).

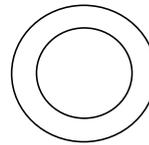
Due to the large volume of information received, NIMA cannot acknowledge receipt of every report. Some reports containing useful data are filed for use in the compilation of the next edition of the affected product. Others confirm or clarify previously reported information. Echogram traces are digitized and become part of NIMA's Bathymetric Data Base. Acknowledgment is made by inclusion in the Observer's List of the Notice to Mariners (page ii), or in some cases by letter from the Agency involved.

For additional information about various Hydrographic Reports, consult The American Practical Navigator (Chapter 30).





**MARITIME SAFETY INFORMATION DIVISION  
ST D44  
NATIONAL IMAGERY AND MAPPING AGENCY  
4600 SANGAMORE ROAD  
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**ARCTIC MARITIME SAFETY INFORMATION REPORT SHEET**

Observer \_\_\_\_\_

Ship/Organization \_\_\_\_\_

Phone \_\_\_\_\_ Email Address \_\_\_\_\_

Describe Hazard (e.g. dredge, buoy, current meter, operations): \_\_\_\_\_

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Depth water column is occupied (e.g. "bottom to surface", "surface to 500m"): \_\_\_\_\_

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Date of Insertion \_\_\_\_\_ Date of Removal \_\_\_\_\_

If observed, Date \_\_\_\_\_ Time (Local) \_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Datum \_\_\_\_\_

Navigation System \_\_\_\_\_ Verified by Navigator: Yes \_\_\_\_\_ No \_\_\_\_\_

Sounding sensor or method used \_\_\_\_\_

Sounding(s) corrected for draft: Yes \_\_\_\_\_ No \_\_\_\_\_

Details of Information Reported (continue on additional sheets as necessary): \_\_\_\_\_

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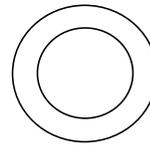
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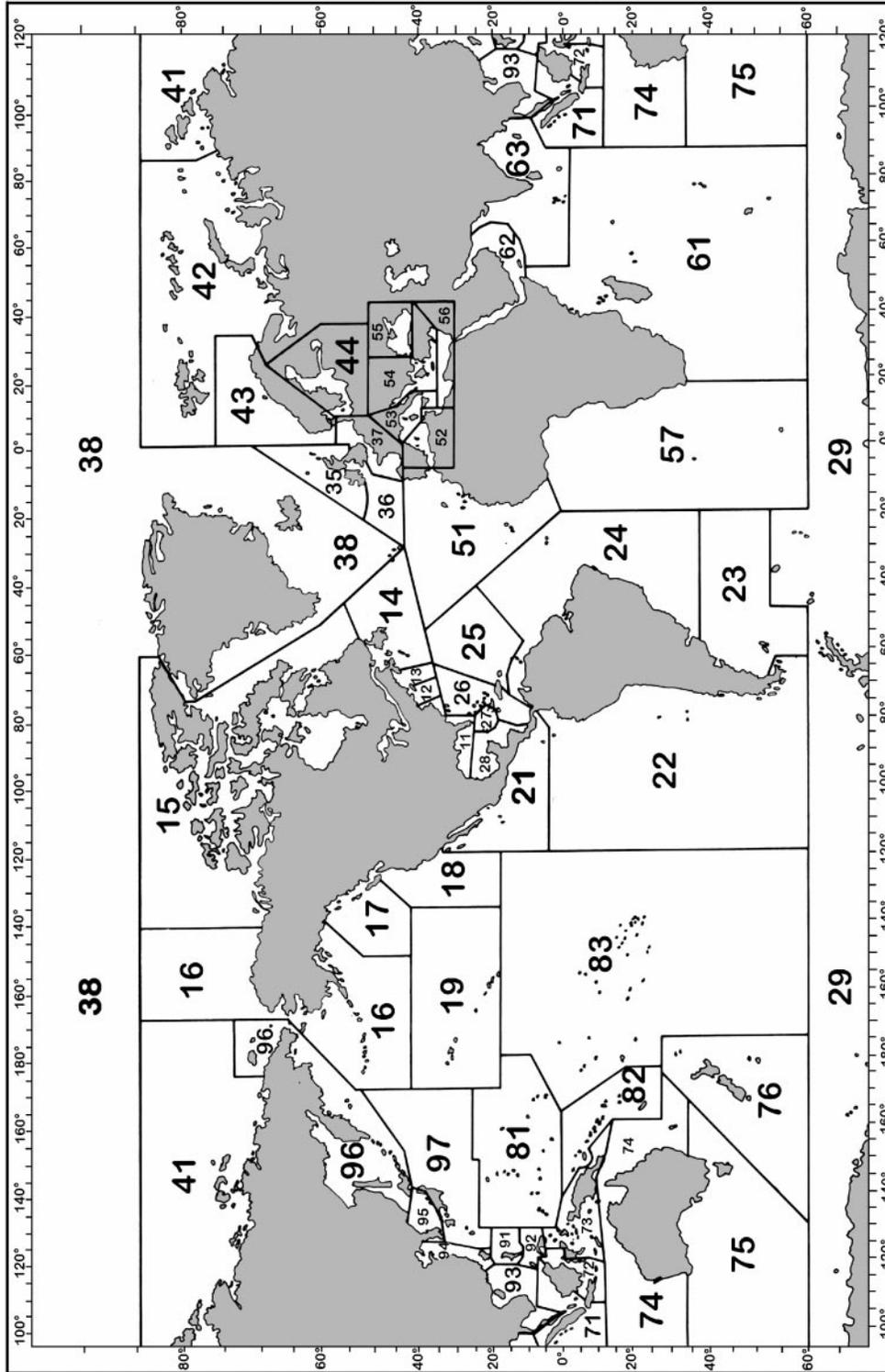


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# GEOGRAPHIC LOCATOR



For chart numbering purposes, the world is divided into nine regions, each corresponding to the geographic limits of one of the nine regions in the NIMA Catalog of Maps, Charts, and Related Products, Part 2-Hydrographic Products, Volume 1. Each Region is further subdivided into the numbered Subregions in the above graphic. The first two digits of all five-digit chart numbers indicate the geographic subregion to which the chart pertains. Users can locate corrections in this Notice for charts of their immediate interest by determining the two-digit Subregion number of the pertinent geographic area, and then turning to the page or pages that list the chart numbers beginning with those two digits.

AFTER 5 DAYS RETURN TO

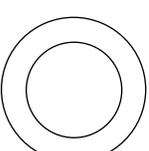
DEFENSE SUPPLY CENTER RICHMOND

ATTN: JNAH

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RICHMOND, VIRGINIA 23297-5338

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**NOTICE TO  
MARINERS**

**PLEASE EXPEDITE DELIVERY**